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FINAL DRAFT - RACER Buick City Remedy Recommendation Report

Buick City Site, Flint, Michigan

September 12, 2014

Revised February 15, 2016

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LIST OF ACRONYMS AND ABBREVIATIONS

2000 Order	The 3008(h) Administrative Order on Consent entered into by the U.S. EPA and the former General Motors Corporation
AOI	Area of Interest
CMI	Corrective Measures Implementation
CMP	Corrective Measures Proposal
CSM	Conceptual Site Model
CSU	Colorado State University
Decision Tree	LNAPL Remedial Decision Tree
ERH	Electrical Resistive Heating
GMC	General Motors Corporation
GSI	Groundwater/Surface Water Interface
GSIP	GSI protection
HHRA	Human Health Risk Assessment
ISCO	In-Situ Chemical Oxidation
ITRC	Interstate Technology & Regulatory Council
LCSM	LNAPL Conceptual Site Model
LIF	Laser Induced Fluorescence
LNAPL	Light Non-Aqueous Phase Liquid
MDEQ	Michigan Department of Environmental Quality
MLC	Motors Liquidation Company
MPE	Multi-phase Extraction
NAPL	Nonaqueous Phase Liquid
NPDES	National Pollutant Discharge Elimination System
NPMP	NPDES Plus Monitoring Plan
NSZD	Natural Source Zone Depletion
OMM	Operations, Monitoring and Maintenance
PAH	Polycyclic Aromatic Hydrocarbons

PCBs	Polychlorinated Biphenyls
PCEM	Preliminary Cost Evaluation Matrix
PPM	Parts Per Million
RACER	Revitalizing Auto Communities Environmental Response Trust
%RE	Percent Reference Emitter
RCBM	Remedy Cost Benefit Matrix
RCES	Remediation Cost Estimate Summary
RCRA	Resource Conservation Recovery Act
RFI	RCRA Facility Investigation
RTM	Remedial Technology Matrix
Site	Buick City Site
SVOC	Semi-Volatile Organic Compounds
TCH	Thermal Conductive Heating
TCLP	Toxicity Characteristic Leaching Procedure
TSCA	Toxic Substances Control Act
U.S. EPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compounds
WHMD	Waste and Hazardous Materials Division
WMU	Waste Management Units

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PREFACE

Investigations conducted by RACER at the Buick City Site (Site), located in Flint, Michigan, in partnership with the EPA, have been designed to accurately and comprehensively characterize the Site (as presented in the conceptual site models) and provide a substantive basis to identify remedies that are protective of health and the environment and are cost effective. A range of remedial options have been identified and evaluated with EPA to ensure appropriate risk management objectives are met by the proposed remedies. Risks at the Buick City Site have been and will generally be addressed in order of established priority, to the extent practical. The process for establishing these priorities is explained below.

This report has been prepared as a guide to the extensive work conducted on the Site and to provide a summary overview of key analyses and the methodologies used to identify and evaluate proposed remedies. Some identified risks have been addressed concurrently with the investigation and remedy evaluation process. The appendices include summaries designed to offer a concise review of the work conducted at the Site and to offer a basic understanding of the findings and remedial recommendations. More in depth questions remaining after a review of this report will require a more in depth review of the underlying referenced background documents. References to background reports and sources of data are also identified.

The challenges associated with this Site are based primarily on the extraordinarily varied historic Site activities and unique Site conditions. Light Nonaqueous Phase Liquids (LNAPL) are the most widespread contaminants that drive the analyses and remedial options. Moreover, a wide range of LNAPL types are found on Site from gasoline to fuel oils and cutting oils. This substantial range of LNAPL types, various historic operations and varied subsurface conditions preclude the application of a common site conceptual model or remedial options. Consequently, the Site work has been divided into 21 different Areas of Interest (AOIs) and specific environmental issues in order to allow for identification and evaluation of remedies designed to match the specific characteristics of each area.

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For example, the Site extends over two miles from the southern end to the northern end and over that distance the subsurface materials vary from permeable sands to tight clays to historic fill with varying depths. Combining that condition with a range of LNAPL types, it is a challenge to find any two locations with similar remedial solutions. In addition, as a result of historic development patterns the majority of the Site is served by a storm sewer system that passes through the Site after serving portions of the City. This sewer system creates a potential preferential migration pathway for contamination on the Site direct to the Flint River. In order to address potential risks to surface water interim remedial measures have included bulk heading storm sewers to prevent migration to the river. It has been a challenge to implement a bulk-heading strategy and also avoid adverse impacts on the storm water service to other portions of the City.

It is also apparent that the nature and distribution of the contamination is not consistent with traditional "plume" characteristics. If traditional soil/groundwater data interpretation techniques are applied certain historical aspects of Site operations may be overlooked. For example, in several instances it was determined that an "area" of LNAPL contamination resulted from a series of discrete releases over time at different locations in the same vicinity involving different types of LNAPL. Under traditional data interpretation methods that area would have been considered a single "Plume" However, after performing further targeted investigations it was determined that a series of discrete releases had taken place necessitating more focused remedial evaluations for each release. These conditions require refocusing remedial alternatives to ensure the proposed remedial options are effective given the specific release area conditions.

As a result of these unique Site conditions no single remedy is applicable or effective for all the LNAPL and other environmental issues at the Site. More appropriate remedies are therefore, identified by evaluating the 21 separate areas/issues at the Site – however, in some areas it has been prudent to combine several historic releases into one remedial evaluation.

Moreover, the priorities for the RCRA facility investigations and corrective measures evaluation were based on risk management principles to prioritize potential releases to the Flint River and polychlorinated biphenyl (PCB) contamination. End points for each

remedial action are also based on appropriate risk reduction and risk management standards. Completion is essentially defined by achieving proper risk management objectives. It is also important to acknowledge that it is inevitable that residual LNAPL will remain in any area where weathered LNAPL is present regardless of the remedial technology applied, with the rare exception of complete excavation. Consequently, risk management principles become the overwhelmingly dominant factor in resolving LNAPL remedial issues and defining the environmentally protective and cost effective LNAPL remedies for the Site.

Finally, it is very important to understand and appreciate the fundamentally different paradigm applicable to LNAPL investigations and remedial decisions. Traditional hydrogeological investigations depend on a characterization of groundwater conditions and movement of contaminants that is different when evaluating LNAPL. Most prominent is the fact that the location and depth of LNAPL in a well may not be a direct reflection of LNAPL conditions in the surrounding material; an assumption that has been historically applicable to traditional non-LNAPL assessments in unconfined groundwater conditions. Furthermore, it is cost effectively impractical to attempt to remove all measurable LNAPL found in monitoring wells. In numerable instances such removal has been attempted, only to be abandoned after years of effort, resulting in extensive expenditures with no material change in environmental conditions. The beginning of the process of adjusting the paradigm applicable to LNAPL is reflected in the work done by the ITRC and their December 2009 publication *Evaluating LNAPL Remedial Technologies for Achieving Project Goals*.

The Site investigations, remedy recommendations, and the LNAPL Decision Flow Chart analyses presented in this report are all based on the guidance and protocols advanced by ITRC and ASTM's *LNAPL Conceptual Site Model Guidance* (E2531-06). Appreciating that these remedial approaches are appropriate requires understanding and accepting the state of the art LNAPL remedial paradigm as defined by ITRC and ASTM. The implementation of an LNAPL remedy also requires the appropriate use of the most current technical state of the art methodologies including the use of membrane Interface Probe (MIP), Laser Induced Fluorescence (LIF) and other investigation techniques such as Natural Source Zone Depletion (NSZD), transmissivity and mobile and residual

LNAPL assessments. Using these methods without understanding how they must be applied and interpreted under the ASTM and ITRC principles can lead to incorrect conclusions and inappropriate remedial strategies.

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1. Introduction

This report presents the remedies recommended for select areas of interest (AOIs) at the Revitalizing Auto Communities Environmental Response Trust (RACER) Buick City Site (Site), located in Flint, Michigan (**Figure 1**). These AOIs have been identified as part of the ongoing Resource Conservation Recovery Act (RCRA) Corrective Action activities at the Site. Remedy recommendations have previously been proposed in the 2008 Revised RCRA Corrective Measures Proposal (CMP) and its Addenda (2009, 2010, and 2011). To the extent any conflicts exist, the recommendations in this report relying on the most recent data and analyses supersede any prior recommendations.

This report presents the following information:

- Section 1 - Historic Site report summary and activities completed in accordance with the March 2000 and September 2011 Administrative Orders on Consent issued for the Site.
- Section 2 - Summary of recent investigations and studies completed to investigate light non-aqueous phase liquid (LNAPL) and the Site's storm sewers.
- Section 3 - Summary of the pathways evaluated and appropriate criteria for comparison.
- Section 4 – Presents a summary of the remedy evaluation process which included prioritizing the LNAPL areas (**Table 5**); using the LNAPL decision tree to identify the risks associated with each LNAPL area (template presented in **Attachment W** and AOI specific evaluations presented as Attachment 2 of **Appendices A through N**); performing a preliminary cost evaluation to identify which remedies would reduce the identified risks cost effectively (**Table 6**); evaluating remedial technologies identified as being potentially applicable at each LNAPL area (**Table 7**); summarizing the completed interim measures, possible remedies and identified risks to select appropriate remedies to address the identified risks (**Table 8**); and completing a polychlorinated biphenyls (PCB) determination for applicable LNAPL Areas (presented as Attachment 3 of **Appendices A through N,** where applicable).
- Section 5 – This section presents remedy recommendations for LNAPL and soil impacts (**Appendices A through R**), as well as strategy memos for the LNAPL

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Impacts at storm sewer Outfalls 002, 003, 004, 005 and groundwater/ surface water interface (GSI) pathway exceedances (**Appendices AA and BB, respectively**), and a summary of the waste management units (WMU) deferred to the U.S. EPA-lead corrective action by the Michigan Department of Environmental Quality (MDEQ) (**Appendices S through U**). Section 5 also presents the estimated costs for the recommended remedies and operations, maintenance and monitoring (OMM) (**Tables 9A through 9C**); and a discussion of the recommended Sitewide institutional controls (**Table 10**). Summary of Site Documents.

In March 2000, the former General Motors Corporation (GMC) entered into a 3008(h) Administrative Order on Consent (2000 Order) with the United States Environmental Protection Agency (U.S. EPA) for the Site. In 2000 the *Description of Current Conditions for Areas North of Leith Street* (Northend) and *Description of Current Conditions for Areas South of Leith Street* (Southend) reports were completed and submitted to the U.S. EPA. Pursuant to the 2000 Order, between 2000 and 2006 investigative work was performed to identify the nature and extent of releases of hazardous waste and/or hazardous constituents at or from the Site. The scope of work and results of these investigations are presented in the following RCRA Facility Investigation (RFI) documents:

- *RCRA Facility Investigation Work Plan* (BBL, 2001);
- *Resource Conservation and Recovery Act Facility Investigation Phase I Report* (BBL, 2002); and
- *Resource Conservation and Recovery Act Facility Investigation Phase II Report* (BBL, 2004, superseded in 2006 by BBL, 2006a).

Pursuant to the 2000 Order after the completion of RFI activities a CMP was submitted to the U.S.EPA in 2006; however, following additional field work the 2006 CMP was revised and supplemented with addenda. The following Corrective Measures Proposals were prepared for the Site:

- *RCRA Corrective Measures Proposal (CMP)* (BBL, 2006b)**;**

- *RCRA Revised Corrective Measures Proposal* (ARCADIS, 2008) , superseded 2006 CMP**;**
- *RCRA Revised Corrective Measures Proposal Addendum No. 1* (ARCADIS, 2009);
- *RCRA Revised Corrective Measures Plan Addendum No. 2* (ARCADIS, 2010a); and
- *RCRA Revised Corrective Measures Plan Addendum No. 2-1* (ARCADIS, 2011a).

The *Revised Corrective Measures Plan Addendum No. 2* (2010 CMP Addendum No. 2) was prepared to update the proposed remedies for the Northend of the Site based on the Remediation Cost Estimate Summary (RCES), which was prepared by Motors Liquidation Company (MLC) during the bankruptcy proceedings and to facilitate the preparation of the Statement of Basis for the Northend of the Site. As investigation and delineation activities had not yet been completed at the Northend of the Site, the remedies presented in the 2010 CMP Addendum No. 2 were based on the general remedies included in the RCES until sufficient data had been collected to select remedies specific to each LNAPL area.

The remedies presented in the previous CMP documents have been reviewed in conjunction with subsequently collected Site data and remedy revisions based on most recent data have been incorporated herein. The recommended remedies presented as appendices to this report in some instances supersede those remedies previously presented and in some cases establish new remedies for new areas. **Table 1** presents a cross reference between all of the proposed remedies for the Northend and Southend of the Site and the document where the remedy is proposed, which includes this report, the CMP and its addenda, and the Final Decision for the Southend of the Site.

The Final Decision for the Southend of the Site was issued by U.S. EPA in May 2010 (Southend Final Decision).

The essential remedial components in the Southend Final Decision included Multi-Phase Extraction (MPE), LNAPL Passive Recovery Trenches, Excavation of Contaminated

Soils, monitoring of in place contamination and Institutional Controls to prohibit use of groundwater and to limit access to other in place contamination. All of these elements are proposed for further remedial activities in the Northend; for example, MPE is proposed for AOI 36-1/36-2 and LNAPL Passive Recovery Trenches are proposed for AOI 10-1/10-4, AOI 36-5, AOI 83/84-1, and AOI 86-1. Institutional Controls will be applied to the entire Site with selected specific controls in certain areas of the Site.

The Southend Final Decision also required the preparation of a *Corrective Measures Implementation (CMI) Work Plan* (CMI Work Plan) (ARCADIS, 2010b), which was submitted to the U.S. EPA in August 2010. Beginning in 2011, annual CMI reports have been prepared to summarize ongoing Site CMI activities, as listed below:

- *2010 Corrective Measures Implementation Annual Report* (ARCADIS, 2011b);
- *2011 Corrective Measures Implementation Annual Report* (ARCADIS, 2012);
- *2012 Corrective Measures Implementation Annual Report* (ARCADIS, 2013).
- *2013 Corrective Measures Implementation Annual Report* (ARCADIS, 2014).

Site investigation data such as soil boring logs, monitoring well logs, laser induced fluorescence (LIF) logs that have been previously presented in the Site documents discussed above are not re-presented in this report. However, to facilitate review of the remedy recommendation memos included in **Appendices A through U** (EPA comments to these memos are included as **Appendix V**), tables of groundwater, soil and LNAPL analytical data for each AOI/issue as well as groundwater level data are presented in **Appendix X**. In addition the above referenced documents are presented in **Appendix Y** (attached CD) and are also available on websites for RACER Trust and the U.S. EPA.

- http://www.racertrust.org/Properties/Detail?Id=12950
- htttp://www.epa.gov/region05/cleanup/rcra/buickcity/index.html

2. Recent Investigation, Studies, and Evaluations

Additional investigation activities and studies have been completed at both the Northend and Southend of the Site since the submission of the Revised CMP Addendum No. 2-1, in order to delineate the extent of and characterize impacts; to evaluate recoverability

and natural degradation of LNAPL; and to perform bench scale studies on selected remedial technologies. These activities are summarized in this Section.

2.1 LNAPL Investigations and Studies

The Interstate Technology and Regulatory Council (ITRC) and the MDEQ identify three different conditions that characterize the potential for non-aqueous phase liquids (NAPL) movement in the subsurface (ITRC, 2009). The MDEQ definitions are presented below:

- Residual NAPL saturation: the range of NAPL saturations greater than zero NAPL saturation up to the NAPL saturation, at which NAPL capillary pressure equals pore entry pressure and includes the maximum NAPL saturation, below which NAPL is discontinuous and immobile under the applied gradient.

- Mobile NAPL: NAPL that exceeds residual saturation, and includes migrating NAPL, but not all mobile NAPL is migrating NAPL.

- Migrating NAPL: NAPL that is observed to spread or expand laterally or vertically or otherwise result in an increased volume of the NAPL extent, usually indicated by time series data or observation. Migrating NAPL does not include NAPL that appears in a well within the historical extent of the NAPL due to a fluctuating water table.

2.1.1 Laser Induced Fluorescence (LIF) Investigation (2010 to 2012)

LIF investigations were completed at the Site from 2010 to 2012 to delineate the vertical and horizontal extent of LNAPL impacts. During the investigations the LIF probe was advanced using a track-mounted direct-push rig. The first five feet of all borings were advanced using a hand auger or air-knife; therefore, LIF responses from 0 to 5 feet below ground surface were not included in the analysis. Based on a correlation of the observed fluorescence with field data indicative of LNAPL it was determined that LIF readings of less than 5 percent reference emitter (%RE) were attributable to background fluorescence and/or were relatively insignificant. Only responses greater than 5% were considered meaningful to further refine the extent of Site impacts.

LIF responses above background are indicative of the presence of LNAPL in the subsurface, but the magnitude of the response is not representative of mobile LNAPL. The magnitude of the LIF response is related to the soil type, LNAPL type (mainly the fraction of polycyclic aromatic hydrocarbons [PAHs]), and the LNAPL pore saturation. The residual LNAPL saturation of a soil is directly related to soil structure, LNAPL physical properties, and the maximum historical LNAPL saturation, which are spatially variable at an environmental site. Although a higher LIF response is indicative of a higher LNAPL saturation, the variability of the area specific LNAPL residual saturation renders LIF responses indicative of LNAPL mobility challenging. The measurable accumulation of LNAPL in a monitoring well is a decisive measure of mobile LNAPL. Summaries of the LIF investigation results are presented in the *2010, 2011, and 2012 CMI Annual Reports* (ARCADIS, 2011b, 2012, and 2013, respectively).

2.1.2 LNAPL and PCB Delineation Activities (2013 to 2014)

Additional LNAPL and PCB delineation activities were completed at the Site in 2013 and 2014. The objective of the activities was to collect additional Site data to aid in determining remedies and/or technologies to address LNAPL at the Site. The results of these investigations are included in the AOI specific LNAPL remedy recommendation memos presented in **Appendices A through N**. Tables of analytical results are presented in **Appendix X**.

2.1.3 LNAPL Extent Evaluation (Updated 2013/2014)

The areal extents of measurable LNAPL at the Site were previously defined in the 2006 RFI Phase II Report. The following process was used to update the delineation of the areal extent of the areas containing LNAPL incorporating the most recent data.

1. Additional data from monitoring wells located within the vicinity of the LNAPL areas was included in the evaluation to update the areal extent of the LNAPL (i.e. if LNAPL was measured in a monitoring well at a thickness greater than 0.1 ft the area in the vicinity of the well is included within the LNAPL extent).

2. Groundwater/LNAPL gauging data were evaluated to identify where LNAPL had been measured at a thickness of greater than 0.1 feet, more than once in the past three years for inclusion in the LNAPL area.
3. When evaluating data from monitoring wells that have been abandoned – the wells were included within the LNAPL area if LNAPL was measured at a thickness greater than 0.1 feet more than once, during the last three years it was monitored before abandonment.
4. In the vicinity of closed LNAPL removal systems available Site data was evaluated to determine whether it is still appropriate to include the abandoned well/facilities within the LNAPL area.
5. The initial extent of LNAPL is established halfway between a monitoring well where LNAPL is measurable and a monitoring well where LNAPL is not measureable. The extents are further refined by incorporating information from soil boring logs and/or LIF logs completed in the area.

Figures 2 and 3 present the previous extents of LNAPL and the revised extents for the Northend and Southend of the Site, respectively. Please note that previously the LNAPL extents were based on monitoring wells that exhibited an LNAPL thickness of 0.5 feet or greater, while the new extents are based on monitoring wells that exhibit LNAPL thicknesses of 0.1 feet or greater The thickness of 0.1 feet is conservative and is intended to ensure adequate assessment of the potentially recoverable LNAPL. In addition, the evaluation was primarily focused on the last three years of groundwater/LNAPL level data, which represent Site conditions since factory operations ceased, building demolition was completed, and the LNAPL interim measures were terminated. LNAPL delineation and characterization investigations completed during this time also provide a more robust data set that addresses seasonal variations.

In addition, as discussed in Attachment 2 of each LNAPL remedy recommendation (**Appendices A through N**) memo the LNAPL areas at the Site are stable (not migrating) based on the age of the releases (LNAPL bodies typically stabilize within 2 to 5 years after a release has been stopped [ITRC, 2012]) and well gauging data. Groundwater/LNAPL levels are presented in **Appendix X**.

2.1.4 LNAPL Transmissivity Testing (2011 to 2013)

LNAPL transmissivity testing was completed at the Site to quantify relative LNAPL recoverability, to focus LNAPL recovery efforts in areas where LNAPL recovery may be effective, and to aid in establishing the practicable limits of LNAPL recovery. LNAPL transmissivity can be used to assess the recoverability of LNAPL within a saturated zone. LNAPL transmissivity is defined as the volumetric LNAPL flow rate per unit time under a unit hydraulic gradient, through a unit width of porous media. The permeability of the saturated zone and the LNAPL fluid properties that affect recovery rates, predominantly viscosity, are inherently factored into LNAPL transmissivity. LNAPL transmissivity measurements can be used to characterize relative LNAPL mobility and potential recoverability, but cannot predict ultimate recovery volumes (ASTM E2856-12).

In 2011-2012 transmissivity testing was attempted at 11 monitoring wells located in the Southend of the Site. These wells were selected because they met the study requirements of containing greater than 0.5 foot of LNAPL and the air-LNAPL and LNAPL-water interfaces were within the well screen interval. Four quarters of transmissivity testing were completed at the Southend of the Site and the results were summarized in the *2012 Annual CMI Report* (ARCADIS 2013). In 2013 two rounds of transmissivity testing were completed at a total of 14 monitoring wells located at the Northend of the Site. The transmissivity testing locations are presented on **Figures 2 and 3** and a summary of the results is presented on **Table 2**.

Transmissivity data is compared to the following criteria to aid in determining whether LNAPL is readily recoverable.

- ITRC's suggested minimum range, indicating that LNAPL recovery may be practical, is 0.1 to 0.8 ft^2/day (ITRC, 2009).
- The MDEQ has indicated that an LNAPL transmissivity of 0.5 ft^2/day may be established as a draft standard threshold value for recovery to the maximum extent practicable (Swiger, 2013), permitting the use of LNAPL transmissivity as a quantitative recoverability metric in the State of Michigan in the absence of risk-based LNAPL concerns.

The transmissivity results are compared to these criteria and are discussed in the AOI specific LNAPL remedy recommendation memos presented in **Appendices A through N**. Transmissivity results suggested potential recoverable LNAPL in a total of five monitoring wells. One monitoring well with potentially recoverable LNAPL is located in each of the following LNAPL areas: AOI 10-1/10-4, AOI 823/84-2, AOI 83/84-5, AOI 09-B and AOI 40-A, -B & 16-C.

2.1.5 LNAPL Natural Source Zone Depletion (NSZD) Testing (2012 to 2013)

The NSZD study was completed at the Site, as one of a series of multiple lines of evidence for remedy evaluation, designed to estimate ongoing natural attenuation rates of LNAPL as a baseline for comparison to active LNAPL recovery technologies. The NSZD studies were initiated in the Southend of the Site in 2012. Due to the shallow depth to groundwater in this part of the Site, NSZD was measured through two methods; nested soil gas probes and use of experimental carbon dioxide traps from Colorado State University (CSU). Three rounds of testing were completed from February through September 2012 in accordance with the *Southend: Natural Source Zone Depletion and LNAPL Transmissivity Measurement Work Plan* (ARCADIS, 2011c).

The nested soil gas points were installed in three areas where the depth to groundwater exceeded five feet to collect data to support NSZD rate assessment via the Johnson and Lundegard method. Carbon dioxide traps provided by CSU were installed at four locations where the depth to groundwater was less than 5 feet (an insufficient depth for nested soil gas points) to collect data for NSZD rate assessment via the CSU method. In addition, nested soil gas points and carbon dioxide traps were installed at four common locations to allow comparative evaluation of NSZD rates obtained using the two techniques.

Due to the presence of concrete slabs covering the study areas at the Southend of the Site, the data from the carbon traps was not quantifiable; therefore, only the Soil Gas Results are presented in **Table 3A**. The soil gas results include calculated and estimated NSZD results. The calculated NSZD is based on the field oxygen gradient as measured in the soil gas probes. Given the variable field conditions at the Site, NSZD values were also estimated based on the assumption that oxygen is present at atmospheric

concentrations at the surface and is depleted at the water table. Oxygen is typically depleted at depths shallower than the water table. The results of this study are presented in their entirety in the *Southend Natural Source Zone Depletion Evaluation and Results* included in **Appendix Y**.

In 2013 an NSZD study was completed at the Northend of the Site using the carbon traps in locations where no concrete or asphalt surface cover was present. The results of the Northend carbon trap testing are presented on **Table 3B.** The NSZD testing locations are presented on **Figures 2 and 3** and the NSZD results are also discussed in the AOI specific LNAPL remedies presented in **Appendices A through N**.

In general these field tests demonstrated NSZD is occurring at the Site both in open areas, under slabs, and under other impervious surfaces.

2.1.6 Summary of Bench-Scale Testing Results (2010 to 2013)

Bench-scale treatability studies were conducted to evaluate the potential to recover two LNAPL types characterized as hydraulic oil and fuel oil from four AOIs at the Site. The purpose of the testing was to assess LNAPL remediation technology performance on the variable soil types and LNAPL types present at the Site. Bench-scale tests were conducted to assess the following remedial technologies:

- Physical (Hydraulic) LNAPL Recovery: Recovery of LNAPL through conventional hydraulic methods (pumping, skimming, etc.).
- Surfactant-Enhanced LNAPL Recovery: Enhanced physical recovery of LNAPL by flooding the LNAPL affected area with surfactant and extracting LNAPL.
- Thermally-Enhanced LNAPL Recovery via:
    - Hot water flooding: Enhanced physical recovery of LNAPL by flooding the LNAPL affected area with hot water and simultaneously extracting LNAPL.
    - High temperature application: The subsurface is heated above the boiling point of water to increase the volatilization of LNAPL and the

resulting vapors are removed with vapor extraction wells. Two common methods are electrical resistive heating (ERH) or thermal conductive heating (TCH).

- In-Situ Chemical Oxidation (ISCO): An oxidant is injected into the subsurface to chemically oxidize the LNAPL.
- Surfactant-Enhanced ISCO: Surfactant is injected with oxidant to increase the solubility of the LNAPL, increasing the rate of chemical oxidation.

The testing was conducted in three parts; preliminary testing, bench-scale testing, and injectability testing. Preliminary fluid property tests were conducted on Site LNAPL and groundwater to provide a basis for selecting enhanced bench-scale test conditions. Bench-scale tests were designed to evaluate the efficacy of the five remediation technologies outlined above. The injectability testing was completed to determine the feasibility of reagent injections. A summary of the bench-scale testing results are presented in the Bench-Scale Testing Matrix, presented in **Tables 4A** and **4B**. The technologies identified during bench-scale testing as potentially applicable at the Site were Thermally-Enhanced LNAPL Recovery via High Temperature Application and Surfactant Enhanced Hot Water Flooding. Please note that application of these remedies would not preclude the need for ongoing groundwater monitoring or long term monitoring requirements.

In addition in 2013 a method based on enzyme application was evaluated by a consultant offering to identify innovative remedial approaches. The laboratory testing conducted by that consultant concluded that the enzyme method produced a “highly water soluble byproduct” making LNAPL recovery even more challenging. That assessment was discontinued.

2.2 Storm Sewer Investigations and Studies

Various investigations, studies and evaluations of the Site’s storm sewers have been completed to identify areas of infiltration of LNAPL and impacted groundwater, evaluate hydraulic capacity, and identify appropriate remedies. These investigation activities have

included NPDES Plus Monitoring Plan sampling, boom studies, video inspections, the Outfall 004 Flow Study, and evaluation of the residual LNAPL impacts at the river banks.

2.2.1 NPDES Plus Monitoring Plan (NPMP) (2010 to Present)

The NPMP was implemented at the Site to evaluate compliance with Michigan Part 201 GSI criteria for the long-term protection of the Flint River. During the RCES development activities in May 2010, the U.S. EPA and MDEQ agreed to the approach of sampling of the storm sewers as a means to address potential GSI impacts in lieu of performing groundwater monitoring in wells adjacent to the sewer. It was agreed that samples collected in the sewers were representative of the aggregate groundwater quality discharging into the sewers from the surrounding groundwater and would more accurately reflect the potential risk to the Flint River. This sampling program was originally referred to as "NPDES plus" monitoring because the samples were collected at the NPDES sample locations, but samples are collected at more locations and at a greater frequency than what was required in the NPDES permit for the Site.

The NPMP consists of collecting monthly samples from Site storm sewers during dry weather conditions to evaluate whether the groundwater infiltrating into the Site storm sewers impacts the Flint River. Sampling during dry weather flow conditions provides the most accurate assessment of the condition of the groundwater infiltrating the storm sewers.

Storm sewers associated with the following National Pollutant Discharge Elimination System (NPDES) outfalls have been included in the NPMP: Outfalls 001, 002, 003, 004, 005, 006, 007, 009, 010, 011, and 013. Outfalls have been removed from the monitoring program as bulkhead and re-routing activities are completed including Outfalls 002, 004, 005, and 007 to date. Summaries of the NPMP investigation results are presented in the *2010, 2011, and 2012 CMI Annual Reports* (ARCADIS, 2011b, 2012, and 2013, respectively).

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2.2.2 Boom Studies (2009 to 2013)

"Boom studies" were completed in order to identify and define the portion of a sewer where oil infiltration is occurring. In general the boom studies involve installation of oil absorbent booms at selected manhole locations and inspecting the booms on a regular basis for oil accumulation. Based on the results of the initial boom evaluation, additional booms are then installed upgradient or downgradient of the initial manhole in order to identify and define the portion of the sewer where oil infiltration is occurring. Various boom studies were completed at the Site from 2009 to 2013 to identify and isolate areas of potential oil infiltration into the Outfall 002, 003, 004, and 005 storm sewer systems. Summary tables for the studies are presented in **Appendix X** and a summary memo is presented in **Appendix Y**.

2.2.3 Video Inspections (2013 and earlier)

Various video inspection activities were completed in 2013 to evaluate the Outfall 013 storm sewer prior to potential re-route activities; to evaluate a section of the Outfall 003 storm sewer for oil infiltration; and to inspect a portion of the Outfall 002 storm sewer between the Site and the Flint River for staining and/or oil infiltration. The 2013 video inspections are summarized in the *2013 CMI Annual Report* (ARCADIS, 2014).

Storm sewer video inspections completed prior to and during the RFI are discussed in the *RFI Phase II Report* (BBL, 2006a). The Storm Sewer Video Inspection Memo is presented in its entirety in **Appendix Y.**

3. Pathway Evaluation

This section provides a discussion of the evaluation of relevant pathways at the Site and appropriate criteria for comparison.

3.1 Residential Versus Non-Residential Pathway

The Buick City Site is zoned industrial and a land use restriction will be filed to require that the property use remain non-residential in the future. In addition the adjacent

downgradient properties are non-residential and primarily used as railroads or heavy manufacturing.

As such, analytical data collected from the Site and the downgradient off Site sample locations are compared to applicable Michigan Part 201 non-residential criteria, as the residential pathway is not applicable.

3.2 GSI Criteria Pathway

In the Northend the Site storm sewers are the potential GSI pathway. This pathway is evaluated as part of the NPMP where monthly samples have been collected from each of the storm sewers since September 2009 at monitoring points along the downgradient property boundary (**Figure 4**). Storm sewer samples are compared to the GSI criteria. As part of Site remedial activities, sections of the storm sewers have been bulkheaded to eliminate downstream (pipe) migration of oil or groundwater that might be infiltrating into the storm sewer and eliminate the GSI pathway. The portions of the Northend where the storm sewers have been bulkheaded are shown in grey on **Figure 5** and GSI and GSI protection (GSIP) criteria are not applicable in these areas.

In the Southend the GSI pathway is potentially complete via the Site storm sewers and direct to the Flint River. NPMP sampling is also conducted within the storm sewers in the Southend and the results are compared to GSI criteria. As mentioned above portions of the storm sewers have been bulkheaded in the Southend (shown in grey on **Figure 6**) and GSI and GSIP criteria are not applicable in these areas. However, analytical results of samples from monitoring wells RFI-09-48, RFI -84-06S, and RFI-94-02R, which are included in the annual groundwater monitoring event, are compared to GSI criteria to assess potential for contamination to reach the Flint River in excess of GSI criteria.

In accordance with MDEQ current compliance determination methodologies, if a soil or groundwater sample collected from an area contains analytes at a concentration that exceeds GSI or GSIP criteria, respectively, the exceedance will only be further evaluated if the analyte is also detected above GSI criteria in a relevant Outfall's NPMP sampling, in a sample collected at the Outfall's compliance point, or in a monitoring well near the river. The results of the NPMP sampling events are further discussed in Section 5.5.

Figures 5 and 6 also present the Site drainage areas, and the locations of the bulkheads in addition to the Site storm sewers. **Figures 7 and 8** present the locations of the known Site utilities.

3.3 Drinking Water Pathway

A groundwater use restriction is planned for the Site that will prohibit use of groundwater for any use other than sampling, investigatory, remediation, or short-term dewatering purposes (in compliance with applicable environmental standards). In addition, a groundwater use restriction is being proposed for the Site as well as the downgradient properties between the Site and the Flint River. As such, the drinking water pathway is not applicable on or off Site.

3.4 Vapor Phase Exposure Pathway

Site soil and groundwater data will be evaluated, as discussed below, to identify potential vapor phase impacts. Based on the results of the data evaluation additional investigation will be completed to further evaluate potential impacts along the property boundary, where necessary.

3.4.1 Vapor Intrusion Data Evaluation

The vapor phase pathway at the Site is being evaluated in accordance with MDEQ Part 201 Administrative Rules (Part 201 Rules). The Part 201 Rules establish the generic cleanup criteria for the hazardous substances in vapors emanating from groundwater (R 299.5714 - Rule 714) and soil (R 299.5724 – Rule 724) to indoor air and identify when Site specific screening is required, as discussed below.

3.4.1.1 Applicable Criteria – Groundwater (Rule 714)

Rule 714(2) identifies conditions where the generic MDEQ Part 201 cleanup criteria for groundwater do not apply and a site specific evaluation is required. Per Rule 714(2) if any of the following conditions apply, then a site-specific evaluation of indoor air inhalation risks must be completed:

(a) There is a structure present or planned to be constructed at the facility which does not have a concrete block or poured concrete floor and walls.
(b) The highest water table elevation of a contaminated saturated zone at the facility, considering seasonal variation, is within three meters of the ground surface.
(c) There is a sump present that is not completely isolated from the surrounding soil by its materials of construction; or there is other direct entry of contaminated groundwater into the basement.

As there are no buildings or sumps at the Site, the MDEQ Part 201 Generic criteria are applicable except at locations where the highest water table elevation is within three meters of the ground surface. In portions of the Site where a Site specific evaluation is required per Rule 714 (2)(b) the evaluation will be completed in accordance with the *Guidance Document for the Vapor Intrusion Pathway* (MDEQ, 2013).

3.4.1.2 Applicable Criteria – Soil (Rule 724)

Rule 724(2) identifies conditions for which the generic cleanup criteria for soil do not apply and a site-specific evaluation is required. If any of the conditions outlined in Rule 724(2)(a-b) apply, then a site-specific evaluation must be completed.

(a) There is a structure present or planned to be constructed at the facility which does not have a concrete block or poured concrete floor and walls.
(b) There is a sump present that is not completely isolated from the surrounding soil by its materials of construction.

As there are no buildings or sumps at the Site, the MDEQ Part 201 Generic criteria are applicable.

3.4.2 Vapor Intrusion - Methane

It is also recognized that natural biodegradation of LNAPL may also generate methane that could accumulate in the absence of oxygen. Methane generation could theoretically result in indoor air quality concerns for future structures. Although methane is likely to be

generated by the hydrocarbons left in place, the risk associated with the methane is low. Potential risks associated with methane are acute, explosive (between 5%-15% methane and greater than 11% oxygen) and asphyxiation (displacement of oxygen to below 16%), and there are no chronic human health risks. Methane is effectively respired by aerobic bacteria in soils once oxygen is present, so it is unlikely to find methane and oxygen at concentrations within explosive limits where soil gas transport is dominated by diffusive flow. In an occupied space, asphyxia may result if the oxygen concentration is reduced to approximately 16% as a result of displacement from methane generation. The concentration of methane at which asphyxiation risk becomes significant is higher than the upper explosive limit (15%) and is unlikely in spaces that are not confined. Neither acute condition is likely to occur due to the relative high concentrations of methane required to meet the acute risks, the rapid degradation of methane in the subsurface in the presence of oxygen, and the diffusion dominated subsurface environment. In addition, the soil gas sampling completed as part of the NSZD study at Buick City showed that methane was generated (maximum concentration about 2% in deep samples); however, oxygen was present at all locations and methane was not detected in the shallowest samples indicating that there was sufficient microbial population and enough oxygen to degrade the methane.

3.4.3 Vapor Intrusion - Institutional Controls

The proposed deed restrictions for the Site will include restrictions that require the property use to remain non-residential and prohibit construction of new structures, unless construction incorporates: appropriate engineering controls to eliminate potential for volatilization to indoor air or an evaluation of the vapor intrusion pathway for the new construction must be completed; and preparation of a health and safety plan. The Site does not currently contain any permanent structures; therefore, the vapor intrusion to indoor air pathway is not currently complete at the Site.

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3.5 Applicable Criteria and Data Presentation

3.5.1 Applicable Criteria – Soil and Groundwater Samples

Soil and groundwater samples collected at the Site were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals and/or PCBs as appropriate. The analytical data collected at the Site are compared to applicable Michigan Part 201 criteria dated December 30, 2013 and exceedances of criteria are discussed in each of the AOI specific remedy recommendation memos.

Please note that the data presented in historical Site reports were collected using approved methodologies and compared to applicable criteria *at that time*. For example groundwater samples collected during the Phase I RFI were filtered and analyzed for dissolved metals, which was in accordance with MDEQ requirements in 2001. However, subsequently the MDEQ required that groundwater samples be analyzed for total metals using low-flow sampling techniques for comparison to criteria. All data and exceedances discussed in this report are in comparison to current criteria.

Also, while soil data are compared to the Soil Saturation Concentration (CSat) criteria, CSat criteria are not risk based. CSat is a conservative predictor of where LNAPL may be present. Soils with concentrations greater than the CSat criteria have the potential to have LNAPL present; however, this is not definitive evidence of the presence of LNAPL.

3.5.2 Applicable Criteria – LNAPL Samples

LNAPL samples collected from each of the AOIs were submitted for total VOCs, SVOCs, metals, PCBs, and/or fingerprint analysis. Although there are no LNAPL specific criteria available, the LNAPL data were compared to the MDEQ Part 201 non-residential soil direct contact criteria and the RCRA Toxicity Characteristic Criteria in order to evaluate the relative hazards that may be associated with the LNAPL. Where the analytical data identify a constituent at a concentration which exceeds toxicity criteria the constituent is identified as 'potentially hazardous' in the AOI specific memos (**Appendices A through N**). LNAPL samples will be submitted for TCLP analysis for waste characterization prior to disposal.

3.5.3 Data Presentation

The remedy recommendation memos include a brief summary of the analytes exceeding State Default Background Levels and one or more criteria; the detection or range of detections exceeding criteria and the criteria per the following examples. The format used to present the exceedances lists both the detected amount and the applicable criteria; for example:

- GSIP criterion is exceeded for cobalt (3/2 mg/kg), where '3' represents the detection of cobalt above criteria and '2 mg/kg' represents the GSIP criterion, and
- GSIP criterion is exceeded for arsenic (8-16/4.6 mg/kg), where '8-16' represents the range of detections of arsenic above criteria and '4.6 mg/kg' represents the GSIP criterion.

4. Remedy Evaluation Process

This section summarizes the evaluation process used when preparing the remedy recommendations for the Site's 17 LNAPL areas, which are located within the identified AOIs and have been delineated and characterized as part of the RFI and subsequent investigations. The specific conditions at each LNAPL area are addressed in the remedy recommendation memos presented as **Appendices A through N** of this report.

The foundation for this evaluation process was developed during the preparation of the conceptual site model (CSM) for each AOI. The site investigation information, analytical test results, and the resulting understanding of the site characterization was consolidated in and presented in the CSM and illustrated in the related site plan and cross section drawings. As each cross section was developed and site information was reviewed data gaps were identified and additional field work was performed to collect the needed information. This process was iterative and in some cases resulted in multiple field events to obtain adequate data for the CSM. **Figure 9** presents the locations of the CSM cross sections and the cross section legend. The cross sections are presented in the LNAPL recommendation memos presented in **Appendices A through N.**

4.1 LNAPL Prioritization

The Site's 17 LNAPL areas were prioritized based on five risk metrics:

1) Infiltration – Is the LNAPL infiltrating into the storm sewer?
2) LNAPL Hazards – Does the LNAPL contain PCBs above or below Toxic Substances Control Act (TSCA) criteria? Is the LNAPL flammable? Are any analytes present at potentially hazardous waste levels?
3) Dissolved Phase Plume – Is there a dissolved phase plume (a plume where groundwater concentrations exceed applicable non-residential criteria or GSI criteria, where applicable) associated with the LNAPL area?
4) Offsite Footprint – Does the LNAPL area or its associated dissolved phase plume extend to off-Site properties?
5) Human Health Risk Assessment (HHRA) – Did the HHRA, as presented in the 2006 RFI Phase II Report identify any risk associated with soil, vapor or LNAPL for this LNAPL area?

Because of the risks associated with PCBs and potential releases direct to the Flint River, heavier weight was applied where these risks are present. For example, when PCBs in LNAPL have the potential to reach the Flint River via a storm sewer; those areas rank highest. Each of the LNAPL areas is ranked based on these metrics, weighting, and the available information as of March 2014 as presented in **Table 5**. As interim measures and/or remedies are implemented **Table 5** will be re-prioritized to identify the areas of highest environmental risk.

4.2 Costing and Evaluation of Alternatives

This section discusses the costing and remedial technology evaluations completed as part of the remedy recommendation process. **Table 6** presents the Preliminary Cost Evaluation Matrix (PCEM) which evaluates potential alternatives relative to whether the cost of the alternative is proportional to the effectiveness that would be achieved. The remedies potentially feasible from **Table 6** were carried forward into the Remedial Technology Matrix (**Table 7**) for further evaluation along with other remedy options identified during evaluation activities. Potentially applicable remedies identified in the

Remedial Technology Matrix (RTM) were summarized in the **Table 8**, the Remedy Cost Benefit Matrix (RCBM). The RCBM presents the potential remedies and their estimated costs in conjunction with the risks and benefits from the LNAPL Remedial Decision Tree (Decision Tree) analyses. **Tables 6, 7 and 8** are discussed in additional detail below.

4.2.1 Preliminary Cost Evaluation Matrix

The PCEM (**Table 6**) was prepared to evaluate whether potential alternatives would be feasible from a cost basis. During the bench-scale testing activities surfactant-enhanced LNAPL recovery and thermally-enhanced LNAPL recovery via high temperature application while not cost effective across the Site, were identified as potentially being applicable to address certain LNAPL areas. These technologies along with soil mixing, land farming and excavation were evaluated for each of the LNAPL areas. Technologies identified as being potentially feasible from a cost basis were carried forward into the RTM for further evaluation. . Please note that it is not possible to assess different remedies unless the volume of impacted soil is assumed for purposes of cost estimating. For this purpose we estimated volume of impacts based on where LNAPL was detected in monitoring wells at 0.1 foot or greater thickness. These estimates are not used as the basis for assessing environmental risk – but only for relative cost comparisons.

4.2.2 Remedial Technology Matrix

The RTM (**Table 7**) was developed to document the evaluation of technologies to determine which would potentially be feasible at each of the LNAPL areas at the Site and was updated on an ongoing basis as evaluations were completed. The RTM includes a summary of the key factors used in assessing the most appropriate remedy technology for each area. The RTM was used in conjunction with the LNAPL Remedial Decision Tree (discussed below) to determine the recommended remedies for each AOI.

4.2.3 LNAPL Remedial Decision Tree

The LNAPL Remedial Decision Tree was developed to provide a consistent framework for identifying LNAPL remedial drivers and determining an appropriate remedial strategy

based on a sound LNAPL conceptual site model (LCSM). This Decision Tree is predicated on the development of a LCSM in accordance with ASTM Guidance (Designation: E2531 – 06 *Standard Guide for Development of Conceptual Site Models and Remediation Strategies for Light Nonaqueous-Phase Liquids Released to the Subsurface*). The subsequent evaluation of the LCSM follows Interstate Technology & Regulatory Council (ITRC) guidance and good practices (Technical/Regulatory Guidance - *Evaluating LNAPL Remedial Technologies for Achieving Project Goals, December 2009*) The Decision Tree identifies risks driven by the chemical composition of the LNAPL (referred to as composition concerns) and/or issues associated with the presence of LNAPL that could move to a location where it could cause an unacceptable discharge (referred to as saturation concerns). If either composition or saturation concerns (or both) are identified, the decision tree provides a systematic approach for evaluation of applicable LNAPL management alternatives in the context of Site-specific LNAPL conditions.

Findings from previous and recent investigations were used to navigate through the Decision Tree, remedial drivers were identified and a LNAPL management strategy was proposed for each LNAPL area. The Decision Tree template is presented in **Appendix W**. A detailed summary of the analysis and path through the Decision Tree for each LNAPL area is provided as Attachment 2 in **Appendices A through N**.

4.2.4 Remedy Cost Benefit Evaluation

The Remedy Cost Benefit Matrix (RCBM) was developed to summarize the potentially applicable remedies and their estimated costs in conjunction with the risks and benefits from the Decision Tree analyses. Remedies were then developed to address the risks identified for each of the LNAPL areas at the Site. The RCBM (presented in **Table 8**) includes the key factors used in assessing the most appropriate remedial technology for each LNAPL area.

4.3 Risk-Based Determination per 761.61(c)

In areas where PCBs have been detected at concentrations greater than 1 part per million (ppm), each of the remedy recommendation memos include a request for a risk-

based determination per 761.61(c). The memos include AOI-specific information required in 761.61(c) and references to relevant Site reports for general Site-wide information. The request addresses the nature and extent of the PCB impacts; outlines the proposed plan for which impacts will be removed and which impacts will remain in place; proposed engineering and institutional controls; and proposed waste characterization and disposal plans. During the October 24, 2013 Meeting with RACER, U.S. EPA clarified their position in regards to TSCA issues at the Buick City Site:

> Region 5 U.S. EPA posed this question on the PCB National call 9/16/13:
>
> > The facility is requesting disposal of material at the oil/water separators at "as-found" concentrations given that this is a remedial project and the resulting oil waste at the separator, if found at < 50 ppm, is not the result of "intentional dilution" of any in-situ > 50 ppm NAPL sources that may have infiltrated the sewer. They believe the oil at the separators is Remediation Waste.
> >
> > Question 1: Can the PCB impacted oils at the separators be viewed as PCB Remediation Waste and disposed of based on an "as-found" concentration? (The 761.3 definition for PCB Remediation Waste does not specifically call out oil/NAPL, but it mentions "other debris generated as a result of any PCB spill cleanup, including, but not limited to")
> >
> > *From various responses on the PCB National Call and subsequent discussions, EPA can determine if RACER is not intentionally diluting, and due to the work being conducted under the RCRA 3008(h) Order EPA can use "enforcement discretion" to decide that PCB wastes in the Oil Water Separator are "as found" and not dilution and dispose of accordingly per TSCA.
> >
> > In finalizing proposed remedies for the LNAPL areas there are questions that arise in regards to the disposal of PCB liquids/oils and solids. Submitting a remedy recommendation report for each LNAPL area and referencing 761.61(c) within each report to cover the remediation waste, as opposed to submitting a 61(c) application for approval seems like the prudent path forward.

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5. Remedy Recommendations

Remedy recommendation memos were prepared for select AOIs identified as requiring further action during the RFI and subsequent investigation activities. The remedies presented as appendices to this report in some instances supersede those remedies previously proposed and in some cases establish new remedies for new areas. **Table 1** presents a cross reference between all of the proposed remedies for the Northend and Southend of the Site and the document where the remedy is proposed, which includes this report, the CMP and its addenda, and the Final Decision for the Southend of the Site. Interim measures completed at the Site are summarized in the remedy recommendation memos. Final remedies completed per the Southern Final Decision are documented in the *2010, 2011, and 2012 CMI Annual Reports* (ARCADIS, 2011b, 2012, and 2013, respectively) and are not discussed herein.

The recommended remedies are based on the data available at the time of this report. Data gaps will be addressed in remedy implementation work plans/design documents. Final remedies may be modified based on the results of data gap sampling, if necessary.

5.1 LNAPL Remedies

There are 15 LNAPL areas present at the Site. The remedy has been selected and the MPE system has been implemented at the AOI 09-B gasoline area. Recommended remedies for the 14 remaining LNAPL areas are presented in **Appendices A through N**.

5.2 Soil Remedies

During recent Site investigation activities soil impacts have been identified at AOI 38-1, AOI 40-A, AOI 83/84-3 and AOI 86-1. Recommended remedies for these soil impacts are presented in **Appendices O through R**.

5.3 Waste Management Unit (WMUs) Remedies

In April 2007, a *RCRA Waste Management Unit Closure Status Report* was submitted to the MDEQ – Waste and Hazardous Materials Division (WHMD) summarizing 10 WMU areas (including WMU #3, #7, and #10) and the proposed activities / information required

for closure (ARCADIS BBL, 2007). The reason these selected WMUs are included is explained based on prior MDEQ correspondence.

In a July 27, 2009 response letter the MDEQ determined that due to the possibility that the release may have been from the adjacent product tank and not the regulated waste tank, as well as the fact that some soil removal was conducted during a waterline repair, it would be appropriate to incorporate WMU #3 into the Site-wide corrective action being conducted pursuant to the 2011 AOC and by placing restrictive covenants on groundwater usage and soil relocation.

In a January 15, 2013 correspondence, following the completion of additional investigation activities, the MDEQ determined that the residual contamination at WMU #7 and #10 should be addressed through incorporation into the Site-wide Corrective Action activities being conducted pursuant to the 2000 AOC and by placing restrictive covenants on groundwater usage and soil relocation.

Memos summarizing investigation completed at these WMUs and recommended remedies are presented in **Appendices S, T, and U**.

5.4 Strategy Memo for LNAPL Impacts at Storm Sewer Outfalls 002, 003, 004, and 005

Once investigations addressing infiltration of LNAPL into the Outfall 002, 003, 004, and 005 storm sewers have been completed, activities needed to address the LNAPL impacts at the outfall discharge points to the Flint River will be evaluated and implemented assuming other potential sources of impact can be appropriately accounted for. Strategy recommendations are presented in **Appendix AA**.

5.5 GSI Pathway Exceedances Strategy Memo

As discussed in Section 2.2.1, the NPMP was implemented at the Site to evaluate compliance with Michigan Part 201 GSI criteria for the long-term protection of the Flint River. The NPMP identified select metals at concentrations exceeding GSI criteria. A summary of the NPMP sampling results and strategy recommendations are presented in **Appendix BB**.

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5.6 Recommended Remedy Cost Estimates

A summary of the recommended remedies as well as those previously recommended (Revised CMP or Revised CMP Addendum No. 2) or presented in the Southend Final Decision are presented in **Table 9A**. The estimated design, capital, and OMM costs for the Site remedies are presented in **Table 9B** with additional detailed backup information presented in **Appendix CC**. **Table 9C** presents the rationale for the long term OMM costs.

5.7 Operations, Monitoring, and Maintenance

Operations, monitoring and maintenance activities associated with each of the remedies will be included in an appropriate future submittal such as the basis of design documentation or the corrective measures implementation plan. Documentation will also include details regarding how the effectiveness of remedies will be monitored; frequency of monitoring; what items would trigger re-evaluation, repair or replacement of the remedy; as well as the time frame and end points of monitoring.

5.8 Institutional Controls

Institutional controls are being implemented Site-wide to maintain the property use constituent with the exposure assumptions used by the MDEQ in the development of generic non-residential land use based criteria and to limit or prohibit any activities that interfere with corrective actions such as maintenance of soil cover, prohibition on use of groundwater, and soil relocation obligations.

Table 10 presents each of the Site-wide institutional controls to be implemented at the Site. Future owners will be made aware and required to comply with the institutional controls that generally include; maintain non-residential land use; prohibit installation of well for potable use of groundwater; must address the potential for vapor intrusion; assumes all risks if slabs are removed; and must comply with due care, soil relocation, and all other applicable regulatory requirements. AOI specific institutional controls are presented in **Table 9** and are discussed in the respective remedy recommendation memos (**Appendices A through U**). **Figures 10 and 11** present the locations of the proposed institutional controls for the Site. Also, an example of a restrictive covenant

field for another site is presented in **Appendix Z**.

6. References

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Appendix A

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Tables

Table 1. Remedy and Report Cross Reference Table
RACER Trust, Buick City Site, Flint, Michigan

Area of Interest	Document Presenting Final Remedy Recommendation	Recommended Remedy
AOI 86-1 - LNAPL	2014 Remedy Recommendation Report	Outfall 004 Pathway Elimination 004 Passive Recovery Trench Institutional Controls - Sitewide and AOI Specific Controls A, B, and C
AOI 05-1/05-5 - LNAPL	2014 Remedy Recommendation Report	Outfall 003 Pathway Elimination Targeted Excavation Institutional Controls - Sitewide and AOI Specific Controls A, B, C, and D
AOI 09-B - LNAPL	2010 Final Decision -Southend	Multi-Phase Extraction System (Ongoing) Institutional Controls - Sitewide and AOI Specific Controls A and D
AOI 12-A,-B, & -C - LNAPL	2014 Remedy Recommendation Report	Outfall 004 Pathway Elimination 004 Passive Recovery Trench Surface Cover (In addition to the cover previously installed per the Southend Final Decision) Institutional Controls - Sitewide and AOI Specific Controls A, B, C, and D
AOI 10-1/10-4 - LNAPL	2014 Remedy Recommendation Report	Outfall 003 Pathway Elimination 003 Passive Recovery Trench Targeted Excavation Surface Cover Institutional Controls - Sitewide and AOI Specific Controls A, B, C, and D
AOI 81-2 - LNAPL	2014 Remedy Recommendation Report	Targeted Excavation Institutional Controls - Sitewide and AOI Specific Controls A, B, C, and D
AOI 83/84-2 - LNAPL	2014 Remedy Recommendation Report	Targeted Excavation Surface Cover 003 Passive Recovery Trench 005 Passive Recovery Trench Institutional Controls - Sitewide and AOI Specific Controls A, B, C, and D
AOI 36-1/36-2 - LNAPL	2014 Remedy Recommendation Report	Multi-phase Extraction 002 Passive Recovery Trench Monitoring (Ongoing) Surface Cover Institutional Controls - Sitewide and AOI Specific Controls A and D

Table 1. Remedy and Report Cross Reference Table
RACER Trust, Buick City Site, Flint, Michigan

Area of Interest	Document Presenting Final Remedy Recommendation	Recommended Remedy
AOI 83/84-1 - LNAPL	2014 Remedy Recommendation Report	Outfall 004 Pathway Elimination 004 Passive Recovery Trench Institutional Controls - Sitewide and AOI Specific Control A
AOI 83/84-4 - LNAPL	2014 Remedy Recommendation Report	Institutional Controls - Sitewide
AOI 40-A, -B & 16-C - LNAPL	2014 Remedy Recommendation Report	Outfall 009 and 010 Bulkhead Installation Institutional Controls - Sitewide and AOI Specific Controls A and D
AOI 83/84-5 - LNAPL	2014 Remedy Recommendation Report	LNAPL Recovery Institutional Controls - Sitewide and AOI Specific Control A
AOI 03-1 - LNAPL	2014 Remedy Recommendation Report	Institutional Controls - Sitewide and AOI Specific Controls B and C
AOI 02-B - LNAPL	2014 Remedy Recommendation Report	Institutional Controls - Sitewide
AOI 36-5 - LNAPL	2014 Remedy Recommendation Report	002 Passive Recovery Trench Monitoring (Ongoing) Institutional Controls - Sitewide and AOI Specific Control A
AOI 38-1 - Soil	2014 Remedy Recommendation Report	Targeted Excavation Surface Cover Institutional Controls - Sitewide and AOI Specific Controls A and D
AOI 83/84-3 - Soil	2014 Remedy Recommendation Report	Surface Cover Institutional Controls - Sitewide and AOI Specific Controls A and D
AOI 40-A - Soil	2014 Remedy Recommendation Report	Surface Cover Institutional Controls - Sitewide and AOI Specific Controls A and D
AOI 81-1 - Soil	2008 RCRA Revised CMP	Institutional Controls - Sitewide and AOI Specific Control D
AOI 81-2 - Soil	2010 RCRA Revised CMP - Addendum 2	Surface Cover Institutional Controls - Sitewide and AOI Specific Controls A and D
AOI 86-1 Soil	2014 Remedy Recommendation Report	Surface Cover Institutional Controls - Sitewide and AOI Specific Controls B and D
AOI 02-C - Soil	2010 Final Decision -Southend	Surface Cover (Completed) Institutional Controls - Sitewide and AOI Specific Controls A and D
AOI 12-A - Soil	2010 Final Decision -Southend	Surface Cover (Completed) Institutional Controls - Sitewide and AOI Specific Controls A and D
AOI 29-A - Soil	2010 Final Decision -Southend	Surface Cover (Completed) Institutional Controls - Sitewide and AOI Specific Controls A and D

Table 1. Remedy and Report Cross Reference Table
RACER Trust, Buick City Site, Flint, Michigan

Area of Interest	Document Presenting Final Remedy Recommendation	Recommended Remedy
AOI 09-A - Soil	2010 Final Decision -Southend	Excavation - Offsite Impacts (Completed) Surface Cover - Onsite Impacts (Completed) Institutional Controls - Sitewide and AOI Specific Controls A, B, C, and D
AOI 09-B - Soil	2010 Final Decision -Southend	Surface Cover (Completed) Institutional Controls - Sitewide and AOI Specific Controls A and D
AOI 40-D - Tunnel	2010 Final Decision -Southend	Institutional Controls - Sitewide and AOI Specific Control B
Outfall 002	2014 Remedy Recommendation Report	To Be Determined
Outfall 003	2014 Remedy Recommendation Report	To Be Determined
Outfall 004	2014 Remedy Recommendation Report	To Be Determined
Outfall 005	2014 Remedy Recommendation Report	To Be Determined
WMU #3	2014 Remedy Recommendation Report	Institutional Controls - Sitewide
WMU #7	2014 Remedy Recommendation Report	Bulkhead at Outfalls 009 and 010 (Completed) Institutional Controls - Sitewide and AOI Specific Control A
WMU #10	2014 Remedy Recommendation Report	Institutional Controls - Sitewide and AOI Specific Control E
Storm Sewer GSI Issues	2014 Remedy Recommendation Report	To Be Determined

Notes:

2008 RCRA Revised CMP	*2008 Resource Conservation and Recovery Act (RCRA) Revised Corrective Measures Proposal (CMP)* , ARCADIS, 2008
2010 RCRA Revised CMP - Addendum 2	*2010 RCRA Revised CMP, Addendum No. 2 - Northend Corrective Measures and Site wide Groundwater Monitoring,* ARCADIS, 2010
2010 Final Decision -Southend	*2010 U.S. EPA Final Decision and Response to comments for Soil and Groundwater Cleanup at The Southend of the Former General Motors Corporation North American Operations (Otherwise known as Buick City)* , U.S. EPA, 2010.
2014 Remedy Recommendation Report	*2014 RACER Buick City Remedy Recommendation Report,* ARCADIS, 2014
AOI Specific Institutional Controls -	
A	Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads.
B	Notify future owners of the presence of PCBs.
C	Restrict the area to low occupancy based on the presence of PCBs.
D	Prohibit any excavation or other intrusive activity that could affect the integrity of the surface cover that is present to prevent direct contact with contaminated material, except with using appropriate health and safety measures, during short-term construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the surface cover, that could affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original barrier upon completion of the work. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the Natural Resources and Environmental Protection Act.
E	Notify future owners to the potential presence of a listed hazardous waste beneath WMU #10.

Table 2. LNAPL Transmissivity Results
RACER Trust, Buick City Site, Flint, Michigan

Test Well ID	Test	Date	Drawdown Adjustment (feet)	Time Cut (minutes)	Initial LNAPL Thickness (feet)	Test Duration (minutes)	Final LNAPL Thickness (feet)	LNAPL Recovery (%)	LNAPL Transmissivity (feet^2/day)	
									Bouwer & Rice	Cooper & Jacob / Jacob & Lohman
Northend										
36-FP7	1	4/25/2013	0	9.5	1.49	1280	2.28	153%	**0.2**	--
MW-36-06	1	8/8/2013	0	39	5.18	1532	2.26	44%	0.03	--
20-FP7	1	4/25/2013	0	53	0.52	1418	0.48	92%	--	**1.00**[A]
MW-10-03	1	8/7/2013	0	3.0	3.11	21	0.36	12%	**0.3**	--
43-162	1	8/7/2013	--	--	2.58	2584	2.89	112%	NA	
43-165	1	4/25/2013	--	--	0.39	1149	0.41	105%	NA	
MW-05-04	1	8/7/2013	0.05	3	1.14	2834	0.69	61%	0.05	--
70-107R	1	4/26/2013	0	30	4.25	156	1.32	31%	**0.2**	--
MW-83/84-7	1	8/6/2013	0.09	26	2.18	1777	1.35	62%	**1.6**	--
MW-83/84-10	1	8/6/2013	0	45	6.68	3952	4.89	73%	0.03	--
MW-83/84-19	1	8/6/2013	0	28	2.85	4132	3.2	112%	0.08	--
RFI-83/84-07	1	4/24/2013	0	43	2.74	2850	1.82	66%	0.03	--
RFI-83/84-27	1	4/24/2013	0	25	2.75	2748	0.56	20%	0.02	--
RFI-83/84-53	1	4/24/2013	0	15	2.6	2607	2.41	93%	**4.1**	--
Southend										
RFI-02-14	1	3/27/2012	--	--	--	--	--	--	NA	
RFI-09-40R	1	12/20/2011	0.10	15	1.19	1560	0.36	30%	**0.7**	--
	2	12/21/2011	--	--	1.19	1560	1.57	132%	NA	
	3	3/29/2012	0	12	2.64	179	0.43	16%	0.01	--
	4	6/11/2012	--	--	1.81	1530	1.11	61%	NA	
	5	9/21/2012	0	50	1.81	131	0.49	27%	0.03	--
31-7	1	12/20/2011	--	--	1.19	1560	0.36	30%	NA	
	2	12/22/2011	--	--	0.37	360	0.27	73%	NA	
RFI-12-09R	1	3/29/2012	0	7	0.58	330	0.56	97%	0.08	--
RFI-12-11D	1	12/19/2011	--	--	1.24	1740	0.52	42%	NA	
	2	12/21/2011	--	--	0.52	1740	0.25	48%	NA	
LIF-12-018	1	3/28/2012	0	12	3.11	172	1.21	39%	0.08	--
	2	6/11/2012	--	--	1.66	1620	1.09	66%	NA	
	3	9/19/2012	0	4	1.62	3036	0.85	52%	0.08	--
RFI-12-23	1	12/19/2011	0	2	3.55	1835	2.72	77%	**0.2**	--
	2	12/21/2011	0	12	2.82	1530	1.93	68%	**0.2**	--
	3	3/28/2012	0	65	2.51	387	1.86	74%	**0.4**	--
	4	6/11/2012	0	9	1.81	77	0.9	50%	**0.2**	--
	5	9/19/2012	0	41	1.68	2998	1.05	63%	**0.1**	--
RFI-12-35	1	12/19/2011	0	2	1.45	1783	0.99	68%	0.06	--
	2	12/21/2011	0	5	1.11	1670	0.47	42%	0.09	--
	3	9/20/2012	0	31	0.83	1668	0.5	60%	0.01	--
RFI-16-08	1	12/20/2011	--	--	0.15	1800	0.14	93%	NA	
RFI_40-02R	1	12/20/2011	--	--	1.87	1860	0.34	18%	NA	
	2	12/22/2011	--	--	0.35	180	0.13	37%	NA	
RFI-40-7R2	1	12/19/2011	0.26	4.2	3.39	1543	3.54	104%	**1.6**	--
	2	12/21/2011	0	12.2	3.98	1810	3.45	87%	**1.3**	--
	3	3/27/2012	0.18	18	2.75	150	1.05	38%	**0.6**	--
	4	6/12/2012	0.30	37	3.01	248	2.03	67%	**1.9**	--
	5	9/20/2012	0	28	3.7	1563	3.5	95%	**0.5**	--

General Notes:

Bold Exceeds 0.1 to 0.8 ft^2/day lower criterion range to produce sufficient LNAPL recoverability (ITRC 2009a).

Shaded Exceed the MDEQ standard threshold value for recovery to the maximum extent practicable of 0.5 ft^2/day.

The criteria for potential success of LNAPL recoverability is where the results are greater than **both** the ITRC range and the draft MDEQ standard threshold value.

Footnote:

A - Poor drawdown in this well. Cooper and Jacob was used to get a better fit. The Cooper Jacob method incorporates storativity, which may be occuring at this location causing poor drawdown.

Acronyms and Abbreviations:

0 = LNAPL transmissivity is assumed to be zero due to negligible LNAPL thickness in well at test commencement.

ft = feet

LNAPL = light non-aqueous phase liquid

min = minute

NA = not analyzed for various reasons including poor LNAPL discharge from formation to well, minimal LNAPL drawdown, or nonequilibrium conditions at test commencement.

"--" = not applicable

Table 3A. **NSZD -Soil Gas Sampling Results**
RACER Trust, Buick City Site, Flint, Michigan

Area	Location	Depth	February 2012								May 2012								September 2012							
			Methane	Carbon Dioxide	Oxygen	Hydrocarbon Range [1] C_{10}-C_{22}	Hydrocarbon Range [2] C_6-C_{10}	Depth to LNAPL or Water	NSZD Rate		Methane	Carbon Dioxide	Oxygen	Hydrocarbon Range [1] C_{10}-C_{22}	Hydrocarbon Range [2] C_6-C_{10}	Depth to LNAPL or Water	NSZD Rate		Methane	Carbon Dioxide	Oxygen	Hydrocarbon Range [1] C_{10}-C_{22}	Hydrocarbon Range [2] C_6-C_{10}	Depth to LNAPL or Water	NSZD Rate	
									Calculated [3]	Estimated [4]							Calculated [3]	Estimated [4]							Calculated [3]	Estimated [4]
		ft bgs	%	%	%	mg/m_3	mg/m_3	ft bgs	gal/acre/yr	gal/acre/yr	%	%	%	mg/m_3	mg/m_3	ft bgs	gal/acre/yr	gal/acre/yr	%	%	%	mg/m_3	mg/m_3	ft bgs	gal/acre/yr	gal/acre/yr
AOI 09-B - Gasoline Area	LIF-09-021	1.5	ND<0.001	2.803	10.39	ND<2.57	ND<2.11	10.68	NA	800	0.02254	9.907	13.46	ND<25.7	ND<21.1	9.89	NA	700	ND<0.001	12.65	5.795	ND<16.7	ND<16.7	10.73	NA	700
		5.5	No Sample Collected: Water in tubing								No Sample Collected: Water in tubing								No Sample Collected: Water in tubing							
		8	No Sample Collected: Water in tubing								No Sample Collected: Water in tubing								No Sample Collected: Water in tubing							
AOIs 12-A, B, & C - Hydraulic Oil Areas	LIF-12-018	1.5	0.01006	ND<0.001	20.39	ND<2.57	ND<2.11	10.07	NA	600	0.006458	0.03064	21.88	ND<25.7	ND<21.1	10.31	NA	600	0.00187	0.07868	15.35	ND<16.7	ND<16.7	10.07	NA	600
		5.5	No Sample Collected: Water in tubing								No Sample Collected: Water in tubing								No Sample Collected: Water in tubing							
		8.5	No Sample Collected: Water in tubing								No Sample Collected: Water in tubing								No Sample Collected: Water in tubing							
AOI 40-A,B and 16-C - Fuel Oil Areas	LIF-16-006	1.5	No Sample Collected: Failed leak testing.					7.3	100	900	ND<0.001	3.621	18.75	ND<25.7	ND<21.1	6.92	NA	900	ND<0.001	9.975	4.404	ND<16.7	ND<16.7	7.3	200	900
		3.5	ND<0.001	2.179	18.24	ND<2.57	ND<2.11				1.482	3.508	18.54	ND<25.7	ND<21.1				ND<0.001	12.33	2.66	ND<16.7	ND<16.7			
		6	ND<0.001	3.058	17.17	ND<2.57	ND<2.11				ND<0.001	3.486	19.15	ND<25.7	ND<21.1				ND<0.001	12.73	2.089	ND<16.7	ND<16.7			
	LIF-16-017	1.5	ND<0.001	2.293	9.844	ND<2.57	ND<2.11	7.95	NA	900	ND<0.001	6.042	12.17	ND<25.7	ND<21.1	7.61	500	900	ND<0.001	11.66	5.576	ND<16.7	ND<16.7	7.95	200	800
		3	Sample bag damaged during shipping			ND<2.57	ND<2.11				ND<0.001	7.796	6.185	ND<25.7	ND<21.1				ND<0.001	10.39	4.272	ND<16.7	ND<16.7			
		6	Sample bag damaged during shipping			ND<2.57	ND<2.11				ND<0.001	7.48	5.558	ND<25.7	ND<21.1				0.3342	11.96	2.825	ND<16.7	ND<16.7			
	LIF-40-004	1.5	0.00759	0.1731	13.87	ND<2.57	ND<2.11	10.63	1700	600	ND<0.001	1.105	15.05	ND<25.7	ND<21.1	9.59	2100	800	ND<0.001	6.682	7.214	ND<16.7	ND<16.7	10.63	1000	700
		3.5	0.7196	3.754	3.874	ND<2.57	ND<2.11				ND<0.001	7.763	2.684	ND<25.8	ND<21.2				1.204	9.86	1.463	ND<16.7	21			
		6.5	No Sample Collected: Water in tubing								No Sample Collected: Water in tubing								No Sample Collected: Water in tubing							
	LIF-40-011	1.5	ND<0.001	0.148	21.92	ND<2.57	ND<2.11	9.88	300	700	ND<0.001	0.3793	22.79	ND<25.7	ND<21.1	9.68	400	700	ND<0.001	0.3702	19.05	ND<16.7	ND<16.7	9.88	300	700
		4.5	ND<0.001	0.2987	19.67	ND<2.57	ND<2.11				ND<0.001	1.042	19.37	ND<25.7	ND<21.1				ND<0.001	3.296	16.05	ND<16.7	ND<16.7			
		7.5	No Sample Collected: Water in tubing								No Sample Collected: Water in tubing								No Sample Collected: Water in tubing							
	LIF-40-022	1.5	ND<0.001	0.07751	20.93	ND<2.57	ND<2.11	10.68	NA	700	ND<0.001	0.6169	18.78	ND<25.7	ND<21.1	10.45	NA	700	ND<0.001	3.591	15.76	ND<16.7	ND<16.7	10.68	NA	700
		5	No Sample Collected: Water in tubing								No Sample Collected: Water in tubing								No Sample Collected: Water in tubing							
		8	No Sample Collected: Water in tubing								No Sample Collected: Water in tubing								No Sample Collected: Water in tubing							

Notes:
%: percent
mg/m_3 : milligrams per cubic meter
ft bgs: feet below ground surface
gal/acre/yr: gallons per acre per year
ND: not detected
NA: not able to be calculated
1 - The C_{10}-C_{22} hydrocarbon range is typical of volatile organic compounds (VOCs) from diesel fuel.
2 - The C_6-C_{10} hydrocarbon range is typical of VOCs from gasoline.
3 - The calculated NSZD is based on field measured oxygen gradient measured in the soil gas probes.
4 - Given the variable field conditions at the Site, NSZD values were also estimated the assumption that oxygen is present at atmospheric concentrations at the surface and is depleted at the water table. Oxygen is typically depleted at depths shallower than the water table.

Table 3B. NSZD -Carbon Dioxide Trap Testing Results
RACER Trust, Buick City Site, Flint, Michigan

Northend AOIs	Location of Traps	July 2013			
		CO_2 Trap Treatment	Estimated NAPL Loss Rate (gal/acre-yr)		
			Raw data	Carbon from Fossil Fuel (%)	NSZD Rate corrected by ^{14}C
AOI 36-2 Mineral Seal/Hydraulic Oil Area	RFI-36-42	Top off	10,968	29.7%	3,217
AOI 81-2 Cutting Oil Area	East side of Area	Top off	8,299	41.3%	3,448
	West side of Area	Top off	1,450	18.4%	176
AOI 03-1 Quench Oil Area	03-03R	Top off	2,425	19.8%	396
AOI 05-1/05-5 Cutting Oil Area	43-162	Top off	3,640	23.7%	797
	43-163	Top off	5,952	13.1%	664
AOI 86-1 Fuel Oil Area	RFI-86-03	Top off	2,084	22.3%	397
	RFI-86-02	Top off	3,101	19.3%	516

Note:

The NSZD raw data was corrected by analyzing for the ^{14}C isotope and removing the carbon dioxide attributed to atmospheric contributions. The NSZD Rate Corrected by ^{14}C represents the portion of NSZD attributed to LNAPL degradation.

Table 4A: **Bench-Scale Testing Matrix**
RACER Buick City Site, Flint, MI

AOI LNAPL Area	Physical LNAPL Recovery, Surfactant Enhanced Recovery, and Thermally Enhanced Recovery Testing Results							
	Sample ID	Depth (ft)	Concentration of Surfactant	NAPL Saturation (% Pore Space)				Reduction in LNAPL Saturation[1]
				Field Saturation	RSWD (residual saturation)	After Surfactant Flood	After Hot Water Flood at 200°F	
AOI 02 Hydraulic Oil	LIF-02-007 (8-10')	10.1	2.25%	14.4	14.4	14.4	---	0.00%
	LIF-02-018 (9-11)	10.1	---	2.1	2.1	---	2.1	0.0%
AOI 12 Hydraulic Oil	LIF-12-010 (20-22)	20.65	1.5%	10.3	10.3	10.3	---	0.0%
	LIF-12-010 (20-22)	21.1	---	12.4	12.4	---	12.4	0.0%
	LIF-12-018 (10-12')	11.7	2.25%	8.7	8.7	8.7	---	0.00%
	LIF-12-024 (8-10')	9.35	---	5.5	5.5	---	5.5	0.0%
AOI 16 Fuel Oil	LIF-16-017 (12-14)	13.1	1.5%	20.5	20.5	20.5	---	0.0%
	LIF-16-017 (12-14)	12.9	---	21.4	21.4	---	21.4	0.0%
	LIF-16-017 (12-14)	13.1	1.5%	20.5	20.5	20.5	---	0.0%
AOI 40-A Fuel Oil	LIF-40-011 (9-11)	10.0	1.5%	10.0	10.0	10.0	---	0.0%
	LIF-40-011 (9-11)	10.2	---	3.2	3.2	---	3.2	0.0%
	LIF-40-004 (26-28)	27.1	1.5%	20.1	20.1	**7.6**	---	62.4%
	LIF-40-004 (26-28)	27.3	---	12.0	12.0	---	**10.7**	10.7%

Notes:
1. The Reduction in LNAPL Saturation is the percent reduction of the starting (field) LNAPL pore saturation after being treated with the water drive, surfactant flood, or hot water flood.

Table 4A: **Bench-Scale Testing Matrix**
RACER Buick City Site, Flint, MI

AOI LNAPL Area	Thermally Enhanced Recovery by High Temperature Application Testing Results						
	Treatment	Baseline		(Heated for 3 Days)		Percent Reduction[3]	
		C_{10}-C_{20} [1] (mg/kg)	C_{20}-C_{34} [2] (mg/kg)	C_{10}-C_{20} [1] (mg/kg)	C_{20}-C_{34} [2] (mg/kg)	C_{10}-C_{20} [1] (mg/kg)	C_{20}-C_{34} [2] (mg/kg)
AOI 12 Hydraulic Oil	LIF-12-010 (18-20)	660	3,200	<84	1,100	87.3%	65.6%
	LIF-12-010 (18-20) Dup	700	3,500	<84	1,600	88.0%	54.3%
	Average	680	3,350	<84	1,350	87.6%	60.0%
	LIF-12-018 (10-12)	320	110	LIF-12-018 (10-12) Not Tested Because of Low TPH Concentrations			
	LIF-12-018 (10-12) Dup	280	100				
	Average	300	105				
AOI 16 Fuel Oil	LIF-16-017 (12-24)	3,500	14,000	<17	<17	99.5%	99.9%
	LIF-16-017 (12-24) Dup	3,300	12,000	<17	<17	99.5%	99.9%
	Average	3,400	13,000	<17	<17	99.5%	99.9%

Notes:

1 - The C_{10}-C_{20} hydrocarbon range is typical of diesel fuel.

2 - The C_{20}-C_{34} hydrocarbon range is typical of diesel fuel/lubricating oils.

3 - The Percent Reduction represents the percent reduction of the initial TPH concentration in soil, after the soil was thermally treated.

Table 4A: Bench-Scale Testing Matrix
RACER Buick City Site, Flint, MI

Results of ISCO and Surfactant Enhanced ISCO Testing																				
AOI / NAPL Type	Analysis		#1 Room Temp Control	#2 50°C Control	#3 Iron Activated Treatment			#4 Alkaline Activated			#5 Heat Activated 50°C			#6 Fentons EDTA			#7 Surfactant Enhanced		
			Analytical Results	Analytical Results	Analytical Results	Percent Reduction in TPH		Analytical Results	Percent Reduction in TPH		Analytical Results	Percent Reduction in TPH		Analytical Results	Percent Reduction in TPH		Analytical Results	Percent Reduction in TPH	
						Compared to Control #1	Compared to Control #2		Compared to Control #1	Compared to Control #2		Compared to Control #1	Compared to Control #2		Compared to Control #1	Compared to Control #2		Compared to Control #1	Compared to Control #2
AOI 12 Hydraulic Oil	pH	s.u.	--	--	1	--	--	14	--	--	1	--	--	7	--	--	---	--	--
	Original Oxidant Addition	(g/L)	0	0	400	--	--	400	--	--	400	--	--	80	--	--	400	--	--
	Oxidant	(g/L)	--	--	66.8	--	--	66.8	--	--	352.4	--	--	79.9	--	--	126.3	--	--
	Utilization	% Utilization	--	--	17%	--	--	17%	--	--	88%	--	--	100%	--	--	32%	--	--
	C_{10}-C_{20} [1]	(µg/L)	7,800,000	8,800,000	8,000,000	0%	9%	7,200,000	8%	18%	7,900,000	0%	10%	7,800,000	0%	11%	11,000,000	0%	0%
	C_{20}-C_{34} [2]	(µg/L)	3,300,000	3,700,000	3,900,000	0%	0%	3,300,000	0%	11%	3,900,000	0%	0%	3,400,000	0%	8%	7,000,000	0%	0%
AOI 40-A Fuel Oil	pH	s.u.	--	--	1	--	--	10	--	--	1	--	--	7	--	--	---	--	--
	Original Oxidant Addition	(g/L)	0	0	400	--	--	400	--	--	400	--	--	80	--	--	400	--	--
	Oxidant	(g/L)	--	--	66.8	--	--	114.4	--	--	328.6	--	--	79.9	--	--	138.2	--	--
	Utilization	% Utilization	--	--	17%	--	--	29%	--	--	82%	--	--	100%	--	--	35%	--	--
	C_{10}-C_{20} [1]	(µg/L)	5,000,000	5,100,000	5,200,000	0%	0%	4,900,000	2%	4%	4,300,000	14%	16%	5,500,000	0%	0%	6,400,000	0%	0%
	C_{20}-C_{34} [2]	(µg/L)	1300000 U	1200000 U	1100000 U	0%	0%	1000000 U	0%	0%	1100000 U	0%	0%	1300000 U	0%	0%	2,100,000	0%	0%

Notes:

1 - The C_{10}-C_{20} hydrocarbon range is typical of diesel fuel.

2 - The C_{20}-C_{34} hydrocarbon range is typical of diesel fuel/lubricating oils.

Table 4B: Bench-Scale Testing Matrix - Injectability Testing
RACER Buick City Site, Flint, MI

	INJECTABILITY TESTING		
Monitoring Well ID	**Initial Water Rise (ft)**	**Recovery at 30 minutes**	**Pass/Fail**
LIF-02-007	3.88	99%	Pass
LIF-12-010	3.56	98%	Pass
LIF-16-017	1.32	92%	Pass
LIF-40-022	6.99	23%	Fail

Note:
The water table must recover to 90% within 30 minutes of the test for the well to be considering passing.

Table 5. LNAPL Risk-Based Prioritization Evaluation
RACER Trust, Buick City Site, Flint, Michigan

Area Rank	Area	Outfall Drainage Area	Geology	Metric 1 - Storm Sewer Infiltration	Metric 2a - LNAPL TSCA/PCB	Metric 2b - LNAPL Hazardous/Flammable	Metric 3 - Dissolved Phase Area	Metric 4 - Offsite Footprint	Metric 5 - HHRA[1]			Total Potential Risk Score
									LNAPL Risk	Soil Risk	Vapor Intrusion Risk	
1	AOI 86-1 Fuel Oil Area	004	Fine to medium Sand	6	3	2	2	2	0	2	0	**17**
2	AOIs 05-1/05-5 Cutting Oil Areas	003	Fine Sand	6	6	2	1	0	0	0	0	**15**
3	AOI 09-B Gasoline Area	011	Silty Sand	6	0	2	0	0	1	2	2	**13**
4	AOIs 12-A, B, & C Hydraulic Oil Areas	004 & 006	Silty Lean Clay	6	3	2	0	0	0	1	0	**12**
5	AOIs 10-1/10-4 Hydraulic Oil Areas	003	Fine to medium Sand	3	6	2	0	0	0	0	0	**11**
6	AOI 81-2 Cutting Oil Area	003	Silt and Clay	0	6	0	0	1	0	2	1	**10**
7	AOI 83/84-2 Cutting Oil Area	003 & 004 & 005	Fine to medium Sand	0	6	0	0	0	0	1	0	**7**
8	AOI 36-1 Gasoline Area	002	Fine Sand	0	0	2	0	0	2	0	2	**6**
9	AOI 83/84-1 Cutting Oil Area	003	Sand and Silt	6	0	0	0	0	0	0	0	**6**
10	AOI 83/84-4 Cutting Oil Area	003	Sand	3	0	2	0	0	0	0	0	**5**
11	AOI 40-A,B and 16-C Fuel Oil Areas	009 & 010	Clay and Silt	0	0	2	1	1	0	0	0	**4**
12	AOI 83/84-5 Cutting Oil Area	003	Very fine to fine Sand	0	0	2	0	1	0	0	0	**3**
13	AOI 03-1 Quench Oil Area	003	Silt	0	3	0	0	0	0	0	0	**3**
14	AOI 36-1 Mineral Seal and Hydraulic Oil Area	001 & 002	Fine Sand	0	0	0	0	0	2	0	0	**2**
15	AOI 36-2 Exterior Mineral Seal/Hydraulic Oil Area	002	Sand	0	0	0	0	2	0	0	0	**2**
16	AOI 02-B Hydraulic Oil Area	006	Silty Sand	0	0	0	0	1	0	0	0	**1**
17	AOI 36-5 Fuel Oil Area	002	Silt	0	0	0	0	0	0	0	0	**0**

Notes:

1. Based on the Human Health Risk Assessment presented in the 2006 RFI Phase II Report.

See next page for rationale of metric ranking.

Site-wide restrictions will include a land use restriction to non-residential and a groundwater use restriction.

Mobility was considered as a metric; however, all Areas are stable, so mobility was not a distinguishing characteristic.

Prioritization may be adjusted if there is a redevelopment potential that requires attention.

As interim measures and remedies are implemented this table is updated and the areas are reprioritized.

February 14, 2013 - Prioritization revised to reflect bulkheading to be completed in Q1 - 2013 and to reflect the priority of addressing the areas contaminated with PCBs.

June 25, 2013 - Prioritization revised to include newly-identified Areas.

July 24, 2013 - Correction to ranking scores.

October 22, 2013 - Updated to rank newly-identified LNAPL Areas AOI 83/84-1 and AOI 83/84-5.

November 13, 2013 - Updated to incorporate detection of PCBs in LNAPL at AOI 03-1.

November 20, 2013 - Updated Metrics 3 and 4 to reflect dissolved phase plumes that exceed applicable Non-Residential criteria or GSI criteria, where applicable.

Table 5. **LNAPL Risk-Based Prioritization Evaluation**
RACER Trust, Buick City Site, Flint, Michigan

Ranking System by Metric		
Metric 1 - Is LNAPL from this area entering Site storm sewers?	6	Yes - LNAPL from this area is thought to be entering the storm sewer.
	3	LNAPL from this area is possibly entering the storm sewer.
	0	No LNAPL from this area is thought to be entering the storm sewer.
Metric 2a - LNAPL TSCA/PCB	6	Analytical data indicate that portions of the LNAPL area are TSCA.
	3	Analytical data indicate that portions of the LNAPL area are PCB containing.
	0	Analytical data indicate that the LNAPL area is non-PCB containing.
Metric 2b - LNAPL Hazardous/Flammable	2	Analytical data indicate that portions of the LNAPL area are hazardous and/or flammable.
	0	Analytical data indicate that the LNAPL area is non-hazardous.
Metric 3 - Is there a dissolved phase plume (an area which exceed applicable Non-Residential criteria or GSI criteria, where applicable)?	2	Yes - there is a dissolved phase groundwater area associated with the LNAPL area
	1	Possibly - there may be a dissolved phase groundwater area associated with the LNAPL area.
	0	No - there does not appear to be a dissolved phase groundwater area associated with the LNAPL area.
Metric 4 - Is there an offsite LNAPL or dissolved phase footprint?	2	Yes - the LNAPL and or the dissolved phase plumes are offsite.
	1	The LNAPL or dissolved phase plume footprint may be offsite.
	0	No - the LNAPL and/or associated plume do not appear to be offsite.
Metric 5 - Did the HHRA identify the LNAPL as a Risk?	2	High-end Cumulative Cancer Risk (CCR) and/or Hazard Index (HI) for potential exposure of maintenance workers or redevelopment construction workers to LNAPL exceeded USEPA risk and HI Limits based on the Human Health Risk Assessment presented in the RFI Phase II Report (BBL,2006).
	1	Bounding CCR and/or HI for potential exposure of maintenance workers or redevelopment construction workers to LNAPL exceeded USEPA risk and HI Limits based on the Human Health Risk Assessment presented in the RFI Phase II Report (BBL,2006).
	0	CCR and/or HI for potential exposure do not exceed USEPA risk and HI limits based on the Human Health Risk Assessment presented in the RFI Phase II Report (BBL,2006).
Metric 5 - Did the HHRA identify the Soil in the LNAPL Area as a Risk?	2	Bounding CCR and/or HI for potential exposure of maintenance workers or residents to soil exceeded USEPA risk and HI Limits based on the Human Health Risk Assessment presented in the RFI Phase II Report (BBL,2006).
	1	Lead concentrations in surface soil or mean concentrations in deep soil exceed industrial screening criteria based on the Human Health Risk Assessment presented in the RFI Phase II Report (BBL,2006).
	0	Soil does not require further action based on the Human Health Risk Assessment presented in the RFI Phase II Report (BBL,2006).
Metric 5 - Did the HHRA identify Vapor Intrusion as a Risk?	2	Bounding CCR and/or HI for potential exposure of routine workers to LNAPL or LNAPL and soil via vapor intrusion for a future non-OSHA commercial building exceed USEPA risk and HI limits based on the Human Health Risk Assessment presented in the RFI Phase II Report (BBL,2006).
	1	Bounding HI for potential exposure of routine workers to soil via vapor intrusion for a future non-OSHA commercial building exceeds the USEPA HI limit based on the Human Health Risk Assessment presented in the RFI Phase II Report (BBL,2006).
	0	CCR and/or HI for potential exposure do not exceed USEPA risk and HI limits based on the Human Health Risk Assessment presented in the RFI Phase II Report (BBL,2006).

Table 6. LNAPL Remediation Preliminary Cost Evaluation Matrix
RACER Trust, Buick City Site, Flint, Michigan

Priority Ranking	Area	Cubic Yards of Impacts [1]	Thermally-Enhanced LNAPL Recovery via High Temperature Application			Surfactant Enhanced Hot Water Flooding			Soil Mixing, Land Farming, Excavation Options[6]			
			Range of Costs [2] ($200 to $670 per CY)	Applicable?	Rationale	Range of Costs [4] ($200 to $500 per CY)	Applicable?	Rationale	Soil Mixing/ Landfarm ($60/CY)	Remove Pavement, Excavate, Landfill, Backfill	Applicable?	Rationale
1	AOI 86-1 Fuel Oil Area	3,000	Not evaluated due to the presence of PCBs. [3]			Not evaluated due to the presence of PCBs. [5]			Not Evaluated due to the presence of PCBs[7]	$421,000	Potentially	Excavation is potentially feasible to address shallow impacts; however,the cost of this alternative to address the entire impacted area is not proportional to the effectiveness that would be achieved.
2	AOIs 05-1/05-5 Cutting Oil Areas	28,400	Not evaluated due to the presence of PCBs. [3]			Not evaluated due to the presence of PCBs. [5]			Not Evaluated due to the presence of PCBs[7]	$11.3M	Potentially	Excavation is potentially feasible to address impacts at targeted locations; however,the cost of this alternative to address the entire impacted area is not proportional to the effectiveness that would be achieved.
3	AOI 09-B - Gasoline Area	NA	NA	NA	MPE system installed	NA	NA	MPE system installed	NA	NA	NA	MPE system installed
4	AOIs 12-A, B, & C - Hydraulic Oil Areas	20,000 to 26,000	Not evaluated due to the presence of PCBs. [3]			Not evaluated due to the presence of PCBs. [5]			Not Evaluated due to the presence of PCBs[7]	$3.1M	Potentially	Excavation is potentially easible to address impacts at targeted locations; however,the cost of this alternative to address the entire impacted area is not proportional to the effectiveness that would be achieved.
5	AOIs 10-1/10-4 Hydraulic Oil Areas	11,900	Not evaluated due to the presence of PCBs. [3]			Not evaluated due to the presence of PCBs. [5]			Not Evaluated due to the presence of PCBs[7]	$4.2M	Potentially	Excavation is potentially feasible to address impacts at targeted locations; however,the cost of this alternative to address the entire impacted area is not proportional to the effectiveness that would be achieved.
6	AOI 81-2 Cutting Oil Area	3,800	Not evaluated due to the presence of PCBs. [3]			Not evaluated due to the presence of PCBs. [5]			Not Evaluated due to the presence of PCBs[7]	$254,000	Yes	Excavation is feasible to address impacts at targeted locations; however,the cost of this alternative to address the entire impacted area is not proportional to the effectiveness that would be achieved.
7	AOI 83/84-2 Cutting Oil Area	35,400	Not evaluated due to the presence of PCBs. [3]			Not evaluated due to the presence of PCBs. [5]			Not Evaluated due to the presence of PCBs[7]	$10M	Potentially	Excavation is potentially feasible to address impacts at targeted locations; however,the cost of this alternative to address the entire impacted area is not proportional to the effectiveness that would be achieved.
8, 14, 15	AOI 36-1/36-2 LNAPL Area	193,900	$39M to $133M	No	The cost of this alternative is not proportional to the effectiveness that would be achieved. The marginal risk reduction benefit makes this option not cost effective. In addition, implementation of this technology does not preclude the necessity of groundwater monitoring and long term O&M.	$7.6M to $97M	No	The cost of this alternative is not proportional to the effectiveness that would be achieved. The marginal risk reduction benefit makes this option not cost effective. In addition, implementation of this technology does not preclude the necessity of groundwater monitoring and long term O&M.	$22.8M	$22.4M	No	The cost of soil mixing, landfarming, or excavation is not proportional to the effectiveness that would be achieved. Implementation of these technologies do not preclude the necessity of groundwater monitoring and long term O&M. The marginal risk reduction benefit does not warrant the cost.
9	AOI 83/84-1 Cutting Oil Area	6,500	$1.3M to $4.4M	No	The cost of this alternative is not proportional to the effectiveness that would be achieved. The marginal risk reduction benefit makes this option not cost effective. In addition, implementation of this technology does not preclude the necessity of groundwater monitoring and long term O&M. The City of Flint storm sewer main (Outfall 004) and a lateral run through this LNAPL area. The sewer is old and could be structurally compromised if subjected to the high temperatures required by this method.	$1.3M to $3.3M	No	The cost of this alternative is not proportional to the effectiveness that would be achieved. The marginal risk reduction benefit makes this option not cost effective. In addition, implementation of this technology does not preclude the necessity of groundwater monitoring and long term O&M. The City of Flint storm sewer main (Outfall 004) and a lateral run through this LNAPL Area. LNAPL is infiltrating the Outfall 004 sewer. The surfactant would mobilize both the LNAPL and PCBs and could increase migration into the Outfall 004 storm sewer and the Flint River.	$716,000	$731,000	Yes	Soil Mixing/excavation technologies will be further evaluated.
10	AOI 83/84-4 Cutting Oil Area	800	$160,000 to 536,000	Potentially	The City of Flint storm sewer main (Outfall 003) is located approximately 150 feet away from this LNAPL Area. Need to confirm whether this would be impacted by high temperatures.	$160,000 to 400,000	Potentially	The City of Flint storm sewer main (Outfall 003) is located approximately 150 feet away from this LNAPL Area. Need to confirm whether migration is a concern.	$95,000	$97,000	Yes	Soil Mixing/excavation technologies will be further evaluated.

Table 6. LNAPL Remediation Preliminary Cost Evaluation Matrix
RACER Trust, Buick City Site, Flint, Michigan

Priority Ranking	Area	Cubic Yards of Impacts [1]	Thermally-Enhanced LNAPL Recovery via High Temperature Application			Surfactant Enhanced Hot Water Flooding			Soil Mixing, Land Farming, Excavation Options[6]			
			Range of Costs [2] ($200 to $670 per CY)	Applicable?	Rationale	Range of Costs [4] ($200 to $500 per CY)	Applicable?	Rationale	Soil Mixing/ Landfarm ($60/CY)	Remove Pavement, Excavate, Landfill, Backfill	Applicable?	Rationale
11	AOI 40-A,B and 16-C - Fuel Oil Areas	10,100	$2M to $6.8M	No	The cost of this alternative is not proportional to the effectiveness that would be achieved. The marginal risk reduction benefit makes this option not cost effective. In addition, implementation of this technology does not preclude the necessity of groundwater monitoring and long term O&M. This LNAPL Area is adjacent to CSX property and may extend onto their property. Treatment of this LNAPL Area could compromise the integrity of their tracks.	$2M to $5M	Potentially	Based on the Southend bench scale testing results, one location in the AOI 40-A area may be conducive to this technology. This technology will be further evaluated.	$971,000	$1.1M	Potentially	Soil Mixing/excavation technologies will be further evaluated.
12	AOI 83/84-5 Cutting Oil Area	22,200	$4.4M to $14.9M	No	The cost of this alternative is not proportional to the effectiveness that would be achieved. The marginal risk reduction benefit makes this option not cost effective. In addition, implementation of this technology does not preclude the necessity of groundwater monitoring and long term O&M. A City of Flint clay tile storm sewer and other utilities may be located in this LNAPL Area. The sewer is old and is in poor condition. Subjecting the sewer to the high temperatures of this method could compromise the integrity of the sewer. A portion of this LNAPL Area may be on property owned by others (City of Flint). Treatment could compromise the integrity of utilities.	$4.4M to $11.1M	No	The cost of this alternative is not proportional to the effectiveness that would be achieved. The marginal risk reduction benefit makes this option not cost effective. In addition, implementation of this technology does not preclude the necessity of groundwater monitoring and long term O&M. A City of Flint clay tile storm sewer and other utilities may be located in this LNAPL Area. The sewer is old and is in poor condition. Surfactants will increase mobilization and could cause offsite migration.	$2.8M	$2.8M	No	The cost of soil mixing/landfarming or excavation is not proportional to the effectiveness that would be achieved. Implementation of these technologies do not preclude the necessity of groundwater monitoring and long term O&M. The marginal risk reduction benefit does not warrant the cost.
13	AOI 03-1 Quench Oil Area	3,700	Not evaluated due to the presence of PCBs. [3]			Not evaluated due to the presence of PCBs. [5]			Not Evaluated due to the presence of PCBs[7]	$395,000	Potentially	Excavation will be further evaluated.
16	AOI 02-B Hydraulic Oil Area	3,400	$680,000 to $2.3M	Potentially	This LNAPL Area is adjacent to CSX property and may extend onto their property. Treatment of this LNAPL Area could compromise the integrity of their tracks.	$680,000 to $1.7M	No.	The cost of this alternative is not proportional to the effectiveness that would be achieved. The marginal risk reduction benefit makes this option not cost effective. In addition, implementation of this technology does not preclude the necessity of groundwater monitoring and long term O&M. Also, based on the Southend bench scale testing results areas with a silty/clayey geology are not conducive to this technology.	$493,000	$498,000	Potentially	Soil Mixing/excavation technologies will be further evaluated.
17	AOI 36-5 - Fuel Oil Area	1,400	$280,000 to $940,000	Potentially	The AOI 36-5 LNAPL Area intersects the abandoned 002 storm sewer, which is being used as a passive recovery trench. This technology could compromise the integrity of the sewer.	$280,000 to $700,000	No	Technology is potentially feasible based on cost; however, based on the Southend bench scale testing results areas with a silty/clayey geology are not conducive to this technology.	$398,000	$300,000	Yes	Soil Mixing/excavation technologies will be further evaluated.

Notes:
Costs presented in this table were calculated in 2012, based on ranges of costs provided by vendors at that time.

1. It is not possible to assess different remedies unless we assume for purposes of cost estimating the volume of impacts in soils. For this purpose we estimated volume of impacts based on where LNAPL was detected in monitoring wells at 0.1 foot or greater thickness. These estimates are not used as the basis for assessing environmental risk – but only for relative cost comparisons.
2. The costs represent an approximate range of estimates developed in order to determine whether the technology should be further evaluated. Estimate does not includes costs to procure electrical service to the Site or the monthly electrical bill during remedy implementation, which could be substantial.
3. Technology was not evaluated for LNAPL areas containing PCBs, as the possibility of incomplete incineration of PCB-containing LNAPL could result in the generation of dioxins.
4. The costs represent a approximate range of estimates developed in order to determine whether technology should be further evaluated.
5. Technology was not evaluated for LNAPL areas containing PCBs. Use of a surfactant will mobilize PCB-containing LNAPL and may increase migration into Site storm sewers.
6. Soil mixing , land farming, and excavation costs are ball park estimates developed in order to determine whether these options should be further evaluated
and do not include AOI specific considerations such as surface concrete removal, excavation dewatering, etc.
7. This technology not evaluated for LNAPL containing PCBs. Technology will not eliminate PCBs.

Table 7. LNAPL Remedial Technology Matrix
RACER Trust, Buick City Site, Flint, Michigan

Priority Ranking	Area of Interest	Option 1			Option 2			Option 3			Option 4			Option 5		
		Technology Under Consideration	Evaluation	Operations, Monitoring and Maintenance (OMM) [1]	Technology Under Consideration	Evaluation	OMM [1]	Technology Under Consideration	Evaluation	OMM [1]	Technology Under Consideration	Evaluation	OMM [1]	Technology Under Consideration	Evaluation	OMM [1]
1	AOI 86-1 Fuel Oil Area	Outfall 004 Pathway Elimination	A flow study was completed that confirmed that the flow from Outfall 004 can be re-routed into the Outfall 013 storm sewer. However, the City of Flint has not yet approved the re-route. Re-routing the flow will allow the Outfall 004 storm sewer to be bulkheaded and disconnected at the property boundary, eliminating this LNAPL migration pathway.	Inspect and Maintain - The re-route and associated bulkheads will be inspected and maintained as necessary. Inspections will be completed on an annual basis for 3 years and then once every 5 years for the next 25 years.	004 Passive Recovery Trench	Following the re-routing of the Outfall 004 storm sewer, the bulkheaded section of 004 located west of MH 4-12 will be monitored for potential accumulation and removal of LNAPL.	Inspect and Remove - The last downgradient manhole (prior to the bulkhead) will be inspected for LNAPL. Accumulated LNAPL will be removed for offsite disposal. Inspection and removal will be completed for up to 5 years.	Passive Recovery Trench and/or Recovery Wells	Transmissivity testing was unable to be completed at AOI 86-1 due to the lack of LNAPL present in RFI-86-02 and RFI-86-03. LNAPL has only been detected at RFI-86-02 at a thickness greater than 0.1 feet once in the last 10 years. Little (0.05 feet) to no product has been detected at RFI-86-03 in the past ten years. The very minimal amount of LNAPL present in the AOI 86-1 monitoring wells indicates that using LNAPL recovery trenches or wells are not practical means of recovery. Converting the existing storm sewer into a passive recovery trench is the preferred option.	Inspect and Remove - The trench will be inspected for LNAPL. Accumulated LNAPL will be removed for offsite disposal. Inspection and removal will be completed for up to 5 years.	Excavation	Excavation is not a feasible option because of the proximity of the excavation to CSX railroad tracks and depth of the excavation required to address LNAPL impacts.	NA	NA	NA	NA
2	AOIs 05-1/05-5 Cutting Oil Area	Outfall 003 Pathway Elimination	The LNAPL infiltration pathway to the Outfall 003 storm sewer will be eliminated. Pathway elimination technologies may include bulkheading, re-route, replacement, lining, joint sealing or other modifications to eliminate this LNAPL migration pathway.	Inspect and Maintain - The selected technology will be inspected and maintained as necessary. Inspections will be completed on an annual basis for 3 years and then once every 5 years for the next 25 years.	Targeted Excavation	Targeted excavations will be completed to address PCB, lead and manganese impacts at select locations at AOI 05-1/05-5.	Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	Active Recovery Trench or Recovery Wells	Although transmissivity results were unable to be quantified at 43-162 and 43-165 and testing at MW-05-04 indicated recovery is not practical (0.05 ft²/day). Additional transmissivity/recovery testing will be attempted in the middle of the AOI 05-1 LNAPL Area to assess recoverability.	Operate, monitor and maintain system. OMM activities will be completed for up to 5 years.	NA	NA	NA	NA	NA	NA
3	AOI 09-B - Gasoline Area	MPE System Operation began in Spring 2013	NA	Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4	AOIs 12-A, B, & C - Hydraulic Oil Area	Outfall 004 Pathway Elimination	A flow study was completed that confirmed that the flow from Outfall 004 can be re-routed into the Outfall 013 storm sewer. However, the City of Flint has not yet approved the re-route. Re-routing the flow will allow the Outfall 004 storm sewer to be bulkheaded and disconnected at the property boundary, eliminating this LNAPL migration pathway.	Inspect and Maintain - The re-route and associated bulkheads will be inspected and maintained as necessary. Inspections will be completed on an annual basis for 3 years and then once every 5 years for the next 25 years.	004 Passive Recovery Trench	Following the re-routing of the Outfall 004 storm sewer, the bulkheaded section of 004 located west of MH 4-17 will be monitored for potential accumulation and removal of LNAPL.	Inspect and Remove - The last downgradient manhole (prior to the bulkhead) will be inspected for LNAPL. Accumulated LNAPL will be removed for offsite disposal. Inspection and removal will be completed for up to 5 years.	Evaluate using the Building 23 Tunnel as a Passive Recovery Trench	Due to the close proximity of the Outfall 004 storm sewer to the Building 23 tunnel, it was determined that utilizing the re-routed 004 storm sewer as a passive recovery trench is the preferred option.	Inspect and Remove - The tunnel will be inspected for LNAPL. Accumulated LNAPL will be removed for offsite disposal. Inspection and removal will be completed for up to 5 years.	Targeted Excavation of Impacted Materials	The Outfall 004 re-route will eliminate the groundwater/surface water pathway; therefore the soils do not exceed any applicable criteria.	NA	NA	NA	NA
5	AOIs 10-1/10-4 Hydraulic Oil Area	Outfall 003 Pathway Elimination	The LNAPL infiltration pathway to the Outfall 003 storm sewer will be eliminated. Pathway elimination technologies may include bulkheading, re-route, replacement, lining, joint sealing or other modifications to eliminate this LNAPL migration pathway.	Inspect and Maintain - The selected technology will be inspected and maintained as necessary. Inspections will be completed on an annual basis for 3 years and then once every 5 years for the next 25 years.	Targeted Excavation	Targeted excavations will be completed to address PCB impacts at select locations at AOI 10-1/10-4.	Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	003 Passive Recovery Trench	Following bulkhead of the MH 3-22 lateral at Outfall 003 storm sewer, the bulkheaded section will be monitored for potential accumulation and removal of LNAPL.	Inspect and Remove - The last downgradient manhole (prior to the bulkhead) will be inspected for LNAPL. Accumulated LNAPL will be removed for offsite disposal. Inspection and removal will be completed for up to 5 years.	Surface Cover	The existing surface cover (asphalt) will be maintained in order to address the manganese impacted shallow soils located at AOI 10-1/10-4.	Inspect and Maintain - The surface cover will be inspected and maintained as necessary. Inspections will be completed on an annual basis for 5 years and then once every 5 years for the next 25 years.	Active Recovery Trench or Recovery Wells	Transmissivity testing at 20-FP7 indicated recovery is practical (1.0 ft²/day); however, testing at MW-10-03 indicated recovery was impractical (0.3 ft²/day). Additional transmissivity/recovery testing will be completed in the vicinity of 20-FP7 to assess recoverability.	Operate, monitor and maintain system. OMM activities will be completed for up to 5 years.
6	AOI 81-2 Cutting Oil Area	Targeted Excavation	Targeted excavations will be completed to address PCB impacts at select locations at AOI 81-2.	Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	Re-use existing system	Further evaluation of the monitoring wells in the vicinity of the former recovery trench shows that no LNAPL remains in this area; therefore there is no added value by re-using the existing system.	NA	Passive Recovery Trench and/or Recovery Wells	Transmissivity was quantified at 70-107R at 0.2 ft²/day, which is below both the ITRC's and MDEQ's thresholds for practical recovery; therefore, passive recovery trenches or wells are not practical.	NA	Surface Cover	Surface covers may be installed to address PCB impacted surface soils at locations which cannot be addressed by excavation or institutional controls.	Inspect and Maintain - The surface cover will be inspected and maintained as necessary. Inspections will be completed on an annual basis for 5 years and then once every 5 years for the next 25 years.	NA	NA	NA
7	AOI 83/84-2 Cutting Oil Area	Outfall 003 and 005 Lateral Bulkheads	Laterals to Outfall 003 and Outfall 005 storm sewers were bulkheaded to eliminate this LNAPL migration pathway.	Inspect and Maintain - The selected technology will be inspected and maintained as necessary. Inspections will be completed on an annual basis for 3 years and then once every 5 years for the next 25 years.	Targeted Excavation	Targeted excavation will be completed to address PCB impacts in the vicinity of RFI-83/84-49.	Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	003 Passive Recovery Trench	Following bulkhead of the MH 3-10 lateral at Outfall 003 storm sewer, the bulkheaded section will be monitored for potential accumulation and removal of LNAPL.	Inspect and Remove - The last downgradient manhole (prior to the bulkhead) will be inspected for LNAPL. Accumulated LNAPL will be removed for offsite disposal. Inspection and removal will be completed for up to 5 years.	005 Passive Recovery Trench	Following bulkhead of the Outfall 005 storm sewer at MH 5-12, the bulkheaded section will be monitored for potential accumulation and removal of LNAPL.	Inspect and Remove - The last downgradient manhole (prior to the bulkhead) will be inspected for LNAPL. Accumulated LNAPL will be removed for offsite disposal. Inspection and removal will be completed for up to 5 years.	LNAPL/Hydraulic Recovery	The transmissivity in the southern portion of the LNPAL Area indicates recovery would be practical, but the transmissivity in the northern and eastern portions indicates recovery would not be practical.	Operate, monitor and maintain system. OMM activities will be completed for up to 5 years.
8, 14, and 15	AOI 36-1/36-2 LNAPL Area	MPE	A pilot test is planned to be completed in the southeastern portion of the AOI 36-1/36-2 LNAPL Area to address the ambient air impacts related to the gasoline constituents.	Recovery OMM activities will be completed for up to 2 years. Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	Soil Vapor Extraction (SVE) /Air Sparging	SVE and air sparging were evaluated; however, due to the geology these methods would likely only remediate impacts in the immediate vicinity of the wells.	Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	002 Passive Recovery Trench	Following bulkhead installation at MH 2-21 along the Outfall 002 storm sewer, the bulkheaded section will be monitored for potential accumulation and removal of LNAPL.	Inspect and Remove - The last downgradient manhole (prior to the bulkhead) will be inspected for LNAPL. Accumulated LNAPL will be removed for offsite disposal. Inspection and removal will be completed for up to 5 years.	Passive Recovery Trench and/or Recovery Wells	The results of transmissivity testing completed at two locations in the AOI 36-1/36-2 LNAPL area were below the ITRC-suggested minimum threshold and the MDEQ threshold value that indicates LNAPL recovery is not practicable at these wells. Based on transmissivity data and geology at AOI36-1/36-2 a passive recovery trench would likely only drain the immediate vicinity and would not result in substantial LNAPL recovery.	Inspect and Remove - The trench will be inspected for LNAPL. Accumulated LNAPL will be removed for offsite disposal. Inspection and removal will be completed for up to 5 years.	Surface Cover	The existing surface cover (concrete) will be maintained in order to provide protection from future exposure to the direct contact risks associated with the LNAPL and soils.	Inspect and Maintain - The surface cover will be inspected and maintained as necessary. Inspections will be completed on an annual basis for 5 years and then once every 5 years for the next 25 years.

Table 7. LNAPL Remedial Technology Matrix
RACER Trust, Buick City Site, Flint, Michigan

Priority Ranking	Area of Interest	Option 1			Option 2			Option 3			Option 4			Option 5		
		Technology Under Consideration	Evaluation	Operations, Monitoring and Maintenance (OMM) [1]	Technology Under Consideration	Evaluation	OMM [1]	Technology Under Consideration	Evaluation	OMM [1]	Technology Under Consideration	Evaluation	OMM [1]	Technology Under Consideration	Evaluation	OMM [1]
9	AOI 83/84-1 Cutting Oil Area	Outfall 004 Pathway Elimination	A flow study was completed that confirmed that the flow from Outfall 004 can be re-routed into the Outfall 013 storm sewer. However, the City of Flint has not yet approved the re-route. Re-routing the flow will allow the Outfall 004 storm sewer to be bulkheaded and disconnected at the property boundary, eliminating this LNAPL migration pathway.	Inspect and Maintain - The re-route and associated bulkheads will be inspected and maintained as necessary. Inspections will be completed on an annual basis for 3 years and then once every 5 years for the next 25 years.	LNAPL/Hydraulic Recovery	Transmissivity testing has not been able to be completed to date because the air/LNAPL interface and the water/LNAPL interface are within the well casing. The AOI 83/84-1 LNAPL Area has only been identified at one monitoring well location; therefore significant LNAPL recovery is unlikely.	OMM activities will be completed for up to 2 years. Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	004 Passive Recovery Trench	Following the re-routing of the Outfall 004 storm sewer and bulkheading of the MH 4-19 lateral at Outfall 004 storm sewer, the bulkheaded section will be monitored for potential accumulation and removal of LNAPL.	Inspect and Remove - The last downgradient manhole (prior to the bulkhead) will be inspected for LNAPL. Accumulated LNAPL will be removed for offsite disposal. Inspection and removal will be completed for up to 5 years.	Targeted Soil Mixing/Land farming	Respirometry results from the Southend indicated the addition of microbes did not increase degradation, but naturally-occurring microbes were present. Naturally-occurring microbes are oxygen limited.	Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	Targeted Excavation of Impacted Materials	The Outfall 004 re-route will eliminate the groundwater/surface water pathway; therefore the soils do not exceed any applicable criteria.	NA
10	AOI 83/84-4 Cutting Oil Area	Hydraulic Recovery	The LNAPL transmissivity quantified at AOI 83/84-4 was 0.03 ft²/day, which is below both the ITRC's and MDEQ's thresholds for practical recovery. Historic LNAPL bailing activities have also recovered minimal quantities of LNAPL.	Recovery OMM activities will be completed for up to 2 years. Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	Thermally Enhanced LNAPL Recovery _ High Temperature Application	The City of Flint storm sewer main (Outfall 003) is located approximately 150 feet away from this LNAPL Area. The sewers are typically not water-tight due to their age. The application of thermal treatment may compromise the sewers.	Recovery OMM activities will be completed for up to 2 years. Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	Surfactant Enhanced LNAPL Recovery	Enhanced dissolution by the use of surfactant is not a viable option based on the presence of the City of Flint storm sewer main (Outfall 003) approximately 150 feet away. This could potentially increase mobility and increase the likelihood of LNAPL infiltration into the storm sewer.	Recovery OMM activities will be completed for up to 2 years. Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	Targeted Soil Mixing/Land farming	Respirometry results from the Southend indicated the addition of microbes did not increase degradation, but naturally-occurring microbes were present. The naturally-occurring microbes are oxygen limited.	Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	NA	NA	NA
11	AOI 40-A,B and 16-C - Fuel Oil Area	Surfactant Enhanced LNAPL Recovery	One location in the AOI 40-A area is potentially possible based on the bench scale study conducted. The surfactant increased recovery by 62.4%.	Recovery OMM activities will be completed for up to 2 years. Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	Targeted Soil Mixing/Land farming	Respirometry results from the Southend indicated the addition of microbes did not increase degradation, but naturally-occurring microbes were present. The naturally-occurring microbes are oxygen limited.	Recovery OMM activities will be completed for up to 2 years. Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	Hydraulic Recovery	The LNAPL transmissivity indicated that practical recovery was quantified at only one well (RFI-40-7R2 - 1.3 to 1.9 ft²/day). LNAPL transmissivity was poor at three other locations.	Recovery OMM activities will be completed for up to 2 years. Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	NA	NA	NA	NA	NA	NA
12	AOI 83/84-5 Cutting Oil Area	LNAPL/Hydraulic Recovery	Although only a portion of the LNAPL Area indicates practical recovery, the proximity of the LNAPL LNAPL Area to the property boundary necessitates recovery. The LNAPL transmissivity indicated that practical recovery was quantified at only one well, MW-83/83-7, (1.6 ft²/day). LNAPL transmissivity was poor at MW-83/84-19 (0.08 ft²/day). Transmissivity will be evaluated at other locations where testing can be completed.	Recovery OMM activities will be completed for up to 2 years. Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13	AOI 03-1 Quench Oil Area	LNAPL/Hydraulic Recovery	Transmissivity testing has not been able to be completed to date due to insufficient LNAPL. The AOI 03-1 LNAPL Area has only been identified at one monitoring well location; therefore, significant LNAPL recovery is unlikely.	Recovery OMM activities will be completed for up to 2 years. Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	Targeted Excavation of Impacted Materials	Soils at AOI 03-1 only exceed GSIP criteria and the storm sewers in this area may be an intermittent GSI pathway.	Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	NA	NA	NA	NA	NA	NA	NA	NA	NA
16	AOI 02-B Hydraulic Oil Area	Thermally Enhanced LNAPL Recovery _ High Temperature Application	This LNAPL Area is adjacent to CSX railroad tracks; application of this technology could compromise the tracks.	Recovery OMM activities will be completed for up to 2 years. Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	Targeted Soil Mixing/Land farming	Due the lack of soil exceedances, these technologies may be eliminated from consideration. Respirometry results indicated the addition of microbes did not increase degradation, but naturally-occurring microbes were present. Naturally-occurring microbes are oxygen limited.	Recovery OMM activities will be completed for up to 2 years. Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	LNAPL/Hydraulic Recovery	The high viscosity (362 cP) limits the ability to conduct transmissivity testing. It is unlikely that hydraulic recovery is practical.	Recovery OMM activities will be completed for up to 2 years. Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	NA	NA	NA	NA	NA	NA
17	AOI 36-5 - Fuel Oil Area	Outfall 002 Infiltration Pathway Elimination	Outfall 002 was bulkheaded to eliminate LNAPL infiltration.	Inspect and Maintain - The re-route and associated bulkheads will be inspected and maintained as necessary. Inspections will be completed on an annual basis for 3 years and then once every 5 years for the next 25 years.	002 Passive Recovery Trench	Following bulkhead installation at MH 2-18 along the Outfall 002 storm sewer, the bulkheaded section will be monitored for potential accumulation and removal of LNAPL.	Inspect and Remove - The last downgradient manhole (prior to the bulkhead) will be inspected for LNAPL. Accumulated LNAPL will be removed for offsite disposal. Inspection and removal will be completed for up to 5 years.	Use Existing Recovery Trench and Sump System	Insufficient LNAPL has accumulated in wells within AOI 36-5 to complete transmissivity testing. LNAPL recoverably Is not feasible.	NA	Thermally-Enhanced LNAPL Recovery via High temperature Application	Other more economical options will be evaluated first. The AOI 36-5 LNAPL Area intersects the abandoned 002 storm sewer, which is being used as a passive recovery trench. This technology could compromise the integrity of the sewer.	Recovery OMM activities will be completed for up to 2 years. Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	NA	NA	NA

Notes:

1. Timeframes of OMM are estimated for cost estimating purposes only and will be refined as appropriate in Corrective Measures Implementation (CMI) documentation.

2. In most cases OMM has been projected out approximately 30 years, except where unnecessary. However if monitoring reveals 3 consecutive years of compliance monitoring will be discontinued.

Table 8. Remedy Cost Benefit Matrix
RACER Trust, Buick City Site, Flint, Michigan

Priority Ranking	Area of Interest	Completed Interim Measures (IM)			Potential Remedy Component #1				Potential Remedy Component #2				Potential Remedy Component #3				Potential Remedy Component #4				Potential Remedy Component #5				LNAPL Decision Tree [1]					
																									LNAPL Compositional Concerns		LNAPL Saturation Concerns				Are Controls Required?	Remedies Recommended
					Technology	Cost	Okind [12]	OMM Cost	Technology	Cost	Okind [12]	OMM Cost	Technology	Cost	Okind [12]	OMM Cost	Technology	Cost	Okind [12]	OMM Cost	Technology	Cost	Okind [12]	OMM Cost	Risk	Cost Benefit	Migration	Mobility	Recoverability	Cost Benefit		
1	AOI 66-1 Fuel Oil Area [3]	Tank Farm (Source Area) Excavated	Two Recovery Wells ~0.5 Years of LNAPL Removal	LNAPL Bailing and Monitoring	Outfall 004 Pathway Elimination	$310,000	Inspect and Maintain - The re-route and associated bulkheads will be inspected and maintained as necessary Inspections will be completed on an annual basis for 3 years and then once every 5 years for the next 25 years.	$5,000/year	004 Passive Recovery Trench	Capital Costs included in Outfall 004 Pathway Elimination	Inspect and Remove - The last downgradient trench (prior to the bulkhead) will be inspected for LNAPL. Accumulated LNAPL will be removed for offsite disposal. Inspection and removal will be completed for up to 5 years.	$10,000/year [11]	Institutional Controls	$12,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1) LNAPL and Impacted Groundwater Infiltration to the Outfall 004 Storm Sewer. 2) Impacted Groundwater Potentially off Site. 3) Soil Volatilization to Indoor Air Concern. 4) Potential Groundwater Volatilization to Indoor Air Concern at the Property Boundary 5) Potential Volatilization to Indoor Air Concern for a Future Structure	Compositional concerns regarding LNAPL infiltration, GSI and volatilization impacts can be addressed through engineering and institutional controls. In addition, LNAPL has only been detected in one monitoring well in the AOI 66-1 LNAPL Area at a thickness greater than 0.1 feet once in the last 10 years.	While the LNAPL is mobile in the vicinity of the storm sewer, it appears to be stable.	LNAPL from the AOI 66-1 area is infiltrating the Outfall 004 storm sewer.	The results of historic interim measures (IM) indicate that in the past LNAPL has been recovered using recovery wells and by bailing. However it is uncertain whether future LNAPL recovery is practical as minimal LNAPL is currently present at AOI 66-1.	LNAPL is not readily recoverable.	Based on the infiltration to the Outfall 004 storm sewer, engineering controls are recommended to eliminate the infiltration.	Outfall 004 Pathway Elimination 004 Passive Recovery Trench Institutional Controls - Sitewide and AOI Specific Controls A, B, and C
2	AOIs 55-1/55-5, Cutting Oil Areas [4]	Passive Recovery Trenches ~4 years of LNAPL Recovery at AOI 55-1 from 2 Passive Recovery Trenches	Recovery Wells ~4 years of LNAPL Recovery at AOI 55-5 from two wells	LNAPL Monitoring and Bailing	Outfall 003 Pathway Elimination	$2,000,000	Inspect and Maintain - The selected technology will be inspected and maintained as necessary. Inspections will be completed on an annual basis for 3 years and then once every 5 years for the next 25 years.	$5,000/year	Targeted Excavation - PCB and Lead Containing Soils	$1,820,000	Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	$32,000 Capital Costs $18,000/Year	Addressing Manganese Containing Soils [13]	$65,000	NA	NA	Institutional Controls	$12,600	NA	NA	NA	NA	NA	NA	1) Possible GSI pathway to Outfall 003 2) Direct Contact with LNAPL and Soils 3) Particulate Soil Inhalation Risk 4) Groundwater Volatilization to Indoor Air Concern 5) Potential Volatilization to Indoor Air for a Future Structure	Based on the current understanding of conceptual site model the GSI, direct contact, soil inhalation and vapor phase risks can be effectively mitigated through targeted excavation and engineering and institutional controls. In addition, LNAPL recovery systems operated in this area for 15 years; therefore, partial and effective LNAPL removal has already been completed and a transition to institutional controls is now appropriate.	While the LNAPL is mobile in the vicinity of the storm sewer, the AOI 55-1 and 55-5 LNAPL Areas appear to be stable.	LNAPL from the AOI55-1/55-5 area is infiltrating the Outfall 003 storm sewer, which passes through the AOI55-1 LNAPL Area.	Historic IMs indicate that in the past LNAPL has been recoverable at AOI 55-1 using recovery wells, trenches and bailing (summarized below). However it is uncertain whether future LNAPL recovery is practical.	Compositional and saturation concerns can be addressed through excavation and engineering and institutional controls. Targeted excavations are proposed to address PCB, lead and manganese impacts at the AOI 55-1/55-5 LNAPL Area. Engineering and institutional controls will be implemented to eliminate LNAPL infiltration to the Outfall 003 storm sewer and address the GSI pathway. Additional LNAPL removal will not materially change the risks associated with this LNAPL Area.	Based on the infiltration to the Outfall 003 storm sewer, engineering controls are recommended to eliminate the infiltration.	Outfall 003 Pathway Elimination Targeted Excavation Institutional Controls - Sitewide and AOI Specific Controls A, B, C, and D
3	AOI 09-B - Gasoline Area [5]	LNAPL Monitoring and Bailing			MPE System Start-up Spring 2013	$1.4M ($1.1M Spent - $300,000 remaining)	OMM activities will be completed for up to 2 years. Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	$300,000 System OMM $36,000 Capital Costs $15,000/Year	Institutional Controls	$12,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MPE System (Implemented in 2013) Institutional Controls - Sitewide
4	AOIs 12-A, -B, & -C - Hydraulic Oil Areas [6]	Product Recovery System ~2 years of LNAPL Recovery from two wells		LNAPL Monitoring and Bailing	Outfall 004 Pathway Elimination	$160,000	Inspect and Maintain - The re-route and associated bulkheads will be inspected, and maintained as necessary. Inspections will be completed on an annual basis for 3 years and then once every 5 years for the next 25 years.	$5,000/year	004 Passive Recovery Trench	Capital Costs included in Outfall 004 Pathway Elimination	Inspect and Remove - The last downgradient manhole (prior to the bulkhead) will be inspected for LNAPL. Accumulated LNAPL will be removed for offsite disposal. Inspection and removal will be completed for up to 5 years.	$10,000/year [11]	Surface Cover	$35,000	Inspect and Maintain - The surface cover will be inspected and maintained as necessary. Inspections will be completed on an annual basis for 5 years and then once every 5 years for the next 25 years.	$1,800/Year - Annual Inspections and Maintenance	Institutional Controls	$12,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	1) GSI pathway to Outfall 004 2) Particulate Soil Inhalation Risk 3) Potential Volatilization to Indoor Air for a Future Structure Note the Lead Direct Contact issue has been addressed by the Southend Final Decision	The risks associated with this LNAPL Area are PCB impacted LNAPL infiltrating into the Outfall 004 storm sewer system and possible volatilization to indoor air of a future building. The infiltration to the Outfall 004 storm sewer will be addressed by re-routing the flow into the Outfall 013 storm sewer and bulkheading the Outfall 004 storm sewer in this portion of the Site. Based on the current understanding of conceptual site model, the volatilization to indoor air risk can be effectively mitigated through institutional controls	Although the LNAPL is mobile in the vicinity of the storm sewer, as a collective these LNAPL Areas appear to be stable.	LNAPL from the AOI 12-A, -B, & -C area is infiltrating the Outfall 004 storm sewer, which passes through the AOI 12-C LNAPL Area, however, the viscosity of the LNAPL in this portion of AOI 12-C is 110 cp limiting its mobility.	The results of historic IMs, bench-scale testing and engineering testing indicate that the AOI 12-A, -B, and -C Areas are not readily recoverable.	LNAPL is not readily recoverable.	Based on the infiltration to the Outfall 004 storm sewer, engineering controls are recommended to eliminate the infiltration.	Outfall 004 Pathway Elimination 004 Passive Recovery Trench Surface Cover (In addition to the cover previously installed per the Southend Final Decision) Institutional Controls - Sitewide and AOI Specific Controls A, B, C, and D
5	AOIs 10-1/10-4 Hydraulic Oil Areas [7]	Groundwater Collection Treatment System and Recovery Trench ~13 Years of LNAPL Recovery	Outfall 003 Storm Sewer Lateral Bulkheads	LNAPL Monitoring and Bailing	Outfall 003 Pathway Elimination	$2,000,000	Inspect and Maintain - The selected technology will be inspected and maintained as necessary. Inspections will be completed on an annual basis for 3 years and then once every 5 years for the next 25 years.	$5,000/year	003 Passive Recovery Trench	Capital Costs included in Outfall 003 Pathway Elimination	Inspect and Remove - The last downgradient manhole (prior to the bulkhead) will be inspected for LNAPL. Accumulated LNAPL will be removed for offsite disposal. Inspection and removal will be completed for up to 5 years.	$10,000/year [11]	Targeted Excavation	$340,000	Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	$1,800/Year - Annual Inspections and Maintenance	Institutional Controls	$12,600	NA	NA	Surface Cover	$25,000	Inspect and Maintain - The surface cover will be inspected and maintained as necessary. Inspections will be completed on an annual basis for 5 years and then once every 5 years for the next 25 years.	$1,800/Year - Annual Inspections and Maintenance	Institutional Controls	$12,600	NA	NA	1) GSI pathway to Outfall 003 2) Direct Contact with LNAPL and Soils 3) Particulate Soil Inhalation Risk 4) Potential Groundwater Volatilization to Indoor Air at the Property Boundary 5) Potential Volatilization to Indoor Air for a Future Structure	Based on the current understanding of conceptual site model the GSI, direct contact, soil inhalation and vapor phase risks can be effectively mitigated through targeted excavation and engineering and institutional controls. In addition, LNAPL recovery systems operated in this area for 17 years; therefore, partial and effective LNAPL removal has already been completed and a transition to institutional controls is now appropriate.	While the LNAPL is mobile in the vicinity of the storm sewer, the AOI 10-1/10-4 LNAPL Area appears to be stable.	LNAPL from AOI 10-1/10-4 is infiltrating the Outfall 003 storm sewer, which passes through the AOI 10-4 LNAPL Area.	Historic IMs indicate that in the past LNAPL has been recoverable at AOI 10-1/10-4 using recovery wells, trenches and bailing. However, it is uncertain whether future LNAPL recovery is practical. The results of historic IMs indicate that LNAPL recovery is practical, however, the transmissivity at MW-10-03 indicates recovery is impractical.	Compositional and saturation concerns can be addressed through excavation and engineering and institutional controls. Targeted excavations are proposed to address PCB impacts at the AOI 10-1/10-4 LNAPL Area. Engineering and institutional controls will be implemented to eliminate LNAPL infiltration to the Outfall 003 storm sewer, to address the GSI pathway and to mitigate potential risk associated with particulate inhalation concerns. Additional LNAPL removal will not materially change the risks associated with this LNAPL Area.	Based on the infiltration to the Outfall 003 storm sewer, engineering controls to eliminate the infiltration are recommended.	Outfall 003 Pathway Elimination 003 Passive Recovery Trench Targeted Excavation Surface Cover Institutional Controls - Sitewide and AOI Specific Controls A, B, C, and D
6	AOI 81-2 Cutting Oil Area	Passive Recovery Trench - LNAPL Recovery for ~14 Years		LNAPL Monitoring and Bailing	Targeted Excavation	$280,000	Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	$19,000 Capital Costs $10,800/Year	Institutional Controls	$12,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1) Direct Contact with LNAPL 2) Potential Volatilization to Indoor Air for a Future Structure	Based on the current understanding of conceptual site model direct contact and vapor phase risks can be effectively mitigated through targeted excavation and engineering and institutional controls. In addition, LNAPL recovery systems operated in this area for 17 years; therefore, partial and effective LNAPL removal has already been completed and a transition to institutional controls is now appropriate.	The AOI 81-2 LNAPL Area appears to be stable.	LNAPL is present at three monitoring wells in the AOI 81-2 LNAPL Area indicating that the LNAPL is mobile within the stable perimeter.	The results of historic IMs indicate that in the past LNAPL has been removed using a recovery trench and well, and by bailing. However it is uncertain whether future LNAPL recovery is practical. Although LNAPL was successfully recovered during the IM transmissivity at 70-107R indicates that further LNAPL recovery is impractical.	LNAPL is not readily recoverable.	Compositional and saturation concerns can be addressed through the proposed targeted excavations and engineering and institutional controls.	Targeted Excavation Institutional Controls - Sitewide and AOI Specific Controls A, B, C, and D
7	AOI 83/84-2 Cutting Oil Area	LNAPL Monitoring and Bailing	Product Recovery System - Unknown Amount of LNAPL Recovered	Outfall 003 and GSI Lateral Bulkheads	Targeted Excavation	$115,000	Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	$6,400 Capital Costs $2,600/Year	003 Passive Recovery Trench	$3,000	Inspect and Remove - The last downgradient manhole (prior to the bulkhead) will be inspected for LNAPL. Accumulated LNAPL will be removed for offsite disposal. Inspection and removal will be completed for up to 5 years.	$10,000/year [11]	005 Passive Recovery Trench	$3,000	Inspect and Remove - The last downgradient manhole (prior to the bulkhead) will be inspected for LNAPL. Accumulated LNAPL will be removed for offsite disposal. Inspection and removal will be completed for up to 5 years.	$10,000/year [11]	Surface Cover	$25,000	Inspect and Maintain - The surface cover will be inspected and maintained as necessary. Inspections will be completed on an annual basis for 5 years and then once every 5 years for the next 25 years.	$1,800/Year - Annual Inspections and Maintenance	Institutional Controls	$12,600	NA	NA	1) Volatile Soil Inhalation Risk 2) Particulate Soil Inhalation Risk 3) Direct Contact with LNAPL 4) Potential Volatilization to Indoor Air for a Future Structure	Based on the current understanding of risk conditions, the direct contact, soil inhalation and potential volatilization to indoor air compositional concerns can be effectively mitigated through targeted excavation and engineering and institutional controls.	While the LNAPL is mobile in the vicinity of the Outfall 003 and GSI storm sewers, the AOI 83/84-2 LNAPL Area appears to be stable.	LNAPL was infiltrating the Outfall 003 and GSI storm sewers. In addition LNAPL is present at monitoring wells in the AOI 83/84-2 area indicating that the LNAPL is mobile within the stable perimeter.	The results of historic IMs indicate that in the past LNAPL may be have been recovered using a product recovery well and by bailing. Transmissivity testing completed indicated that LNAPL may be readily recoverable in the southeastern portion of the LNAPL Area, however, recovery is not practical in the northern and eastern portions of the LNAPL Area.	Although LNAPL may be recoverable in a portion of the LNAPL Area, the compositional and saturation concerns can be addressed through the proposed targeted excavation and engineering and institutional controls.	Targeted excavation and engineering and institutional controls are needed mitigate direct contact and soil inhalation risks.	Targeted Excavation Maintain Surface Cover 003 Passive Recovery Trench 005 Passive Recovery Trench Institutional Controls - Sitewide and AOI Specific Controls A, B, C, and D
8, 14, 17	AOI 26-1/AOI 26-2 LNAPL Area	Product Recovery System ~6 years of LNAPL Recovery from three recovery wells	Outfall 001 and 002 Storm Sewer Bulkheads	LNAPL Monitoring and Bailing	MPE - Southeastern Portion of the LNAPL Area	$870,000	OMM activities will be completed for up to 2 years. Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	$343,000/Year OMM Costs $37,000 Capital Costs $15,000/Year	Excavation - Southeastern Portion of the LNAPL Area (to 12 feet bgs)	$3,200,000	Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	$26,000 Capital Costs $14,400/Year	$0 - Work completed as part of the Buick City Bulkhead Installation	Inspect and Remove - The last downgradient manhole (prior to the bulkhead) will be inspected for LNAPL. Accumulated LNAPL will be removed for offsite disposal. Inspection and removal will be completed for up to 5 years.	$10,000/year [11]	Surface Cover	$25,000	Inspect and Maintain - The surface cover will be inspected and maintained as necessary. Inspections will be completed on an annual basis for 5 years and then once every 5 years for the next 25 years.	$1,800/Year - Annual Inspections and Maintenance	Institutional Controls	$12,600	NA	NA	1) Soil Volatilization to Indoor Air Concerns 2) Volatile Soil Inhalation Concerns 3) Potential Volatilization to Indoor Air for a Future Structure 4) Direct Contact Concerns 5) LNAPL Infiltration to Outfall 002 Storm Sewer (Addressed by Bulkhead)	Based on the current understanding of conceptual site model soil inhalation concerns in the southeastern portion of the AOI 26-1/26-2 LNAPL Area cannot be effectively addressed through engineering or institutional controls and therefore treatment/removal is recommended.	The AOI 36-1/36-2 LNAPL Area appears to be stable.	LNAPL from the AOI 26-1/26-2 area had been infiltrating the Outfall 002 storm sewer. The Outfall 002 storm sewer has been bulkheaded to eliminate LNAPL infiltration.	Based on the high volatility of LNAPL and soil inhalation risks in the southeastern portion of the LNAPL Area, some LNAPL is likely able to be recoverable. Additionally, the results of historic interim measures (IM) indicate that some LNAPL has previously been able to be recovered in the AOI 26-1/26-2 LNAPL Area.	Implementation of an MPE system in the southeastern portion of the AOI 26-1/26-2 LNAPL Area would likely cost effectively reduce the LNAPL source mass and/or reduce exposure risks associated with volatilization. LNAPL recovery in the northwestern portion of the AOI 26-1/36-2 LNAPL Area would not reduce the exposure risks associated with volatilization due to the lower viability LNAPL constituents.	Compositional and saturation concerns can be addressed through the proposed Multiphase Extraction, and engineering (surface cover and bulkhead) and institutional controls.	Multi-phase Extraction 002 Passive Recovery Trench Maintain Surface Cover Institutional Controls - Sitewide and AOI Specific Controls A, B, and D
9	AOI 83/84-1 Cutting Oil Area [8]	No Completed Interim Measures			Outfall 004 Pathway Elimination	$130,000	Inspect and Maintain - The re-route and associated bulkheads will be inspected, and maintained as necessary Inspections will be completed on an annual basis for 3 years and then once every 5 years for the next 25 years.	$5,000/year	004 Passive Recovery Trench	Capital Costs included in Outfall 004 Pathway Elimination	Inspect and Remove - The last downgradient manhole (prior to the bulkhead) will be inspected for LNAPL. Accumulated LNAPL will be removed for offsite disposal. Inspection and removal will be completed for up to 5 years.	$10,000/year [11]	Targeted Soil Mixing/Land farming [9]	$730,000	Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	$6,400 Capital Costs $3,600/Year	Institutional Controls	$12,600	NA	NA	1) Potential GSI pathway to Outfall 004 Storm Sewer 2) Potential Volatilization to Indoor Air for a Future Structure	Based on the current understanding of risk conditions, the potential GSI/P and volatilization to indoor air compositional concerns can be effectively mitigated through engineering and institutional controls.	Although the AOI 83/84-1 LNAPL is mobile in the vicinity of the Outfall 004 storm sewer, the AOI 83/84-1 LNAPL Area appears to be stable.	LNAPL from AOI 83/84-1 is likely infiltrating the Outfall 004 storm sewer, by way of a lateral that passes through the LNAPL Area, however, the viscosity of the LNAPL is 108 cp, limiting its mobility.	LNAPL recovery is not likely practical due to the high viscosity of the LNAPL. Also, LNAPL is present in only a one well in the AOI 83/84-1 Area.	LNAPL is not readily recoverable.	Based on the likely infiltration to the Outfall 004 storm sewer, an Engineering Control to eliminate the infiltration is recommended.	Outfall 004 Pathway Elimination 004 Passive Recovery Trench Institutional Controls - Sitewide and AOI Specific Control A
10	AOI 83/84-4 Cutting Oil Area	LNAPL Monitoring and Bailing			Thermally-Enhanced LNAPL Recovery - High Temperature Application +	$160,000 to $536,000	Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	$6,400 Capital Costs $3,600/Year	Targeted Soil Mixing/Land farming [9]	$100,000	Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	$6,400 Capital Costs $3,600/Year	Institutional Controls	$12,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1) Potential GSI pathway to Outfall 003 Storm Sewer 2) Potential Volatilization to Indoor Air for a Future Structure	Based on the current understanding of risk conditions, the GSI and volatilization to indoor air concerns can be effectively mitigated through institutional controls.	The AOI 83/84-4 LNAPL Area appears to be stable.	LNAPL is present at two monitoring wells in the AOI 83/84-4 area indicating that the LNAPL is mobile within the stable perimeter.	Transmissivity testing at RFI-83/84-07 indicated that LNAPL recovery is not practicable.	LNAPL is not readily recoverable	Institutional Controls	Institutional Controls - Sitewide
11	AOI 40-A,B and 39-C - Fuel Oil Areas	LNAPL Monitoring and Bailing			Outfall 009 and 010 Bulkhead Installation (IM Approved and in Progress)	$110,000	Inspect and Maintain - The re-route and associated bulkheads will be inspected, and maintained as necessary Inspections will be completed on an annual basis for 3 years and then once every 5 years for the next 25 years.	$5,000/year	Targeted Soil Mixing/Land farming [9]	$1,000,000	Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	$12,600 Capital Costs $7,200/Year	Surfactant-Enhanced LNAPL Recovery	$2,000,000 to $5,000,000	Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	$12,600 Capital Costs $7,200/Year	Hydraulic Recovery	$45,000	OMM activities will be completed for up to 2 years. Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	$30,000/year for OMM activities $36,000 Capital Costs $15,000/ Year for Monitoring activities	Institutional Controls	$12,600	NA	NA	1) Potential GSI pathway to Outfall 009 and 010 Storm Sewers and Flint River 2) Direct Contact 3)Potential Groundwater Volatilization to Indoor Air Concern at the Property Boundary 4) Potential Volatilization to Indoor Air for a Future Structure	Based on the current understanding of risk conditions GSI and volatilization to indoor air risk can be effectively mitigated through engineering and institutional controls.	The AOI 40-A, -B and 39-C LNAPL Areas appear to be stable.	LNAPL has been detected in several monitoring wells in the 40-A, -B and 39-C area indicating that the LNAPL is mobile within the stable perimeter.	The results of historic interim measures, bench-scale testing and transmissivity testing indicated that LNAPL may be readily recoverable in the northern portion of the AOI 40-A LNAPL Area. However, bench-scale and transmissivity testing indicated that LNAPL recovery is not practical in the southeastern portion of the AOI 40-A LNAPL Area or in the AOI 40-B or 39-C LNAPL Areas.	Compositional and mobility concerns can be addressed through engineering and institutional controls. Although LNAPL recovery may be possible at RFI-40-782, the value of recovery does not outweigh the cost.	Based on the proximity of the AOI 40-A, -B and 16-C LNAPL Areas to the Outfall 009 and 010 storm sewers, Engineering Controls (bulkhead installation) are recommended.	Outfall 009 and 010 Bulkhead Installation Institutional Controls - Sitewide and AOI Specific Controls A and D
12	AOI 83/84-5 Cutting Oil Area	Outfall 003 Storm Sewer Lateral Bulkhead			LNAPL Removal	$250,000	OMM activities will be completed for up to 2 years. Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	$80,000/year for OMM activities $36,000 Capital Costs $15,000/ Year for Monitoring activities	Institutional Controls	$12,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1) Potential GSI pathway to Outfall 003 Storm Sewer 2) Potential Volatilization to Indoor Air for a Future Structure	Based on the current understanding of risk conditions, the volatilization to indoor air compositional concern can be effectively mitigated through institutional controls.	The AOI 83/84-5 LNAPL Area appears to be stable	LNAPL is present at four monitoring well 010-02 (and its replacements 02-02R and 03-02R2) since 2001, indicating the LNAPL is mobile within the stable perimeter.	Transmissivity testing completed indicated that LNAPL may be readily recoverable in the northern portion of the LNAPL Area. However, transmissivity testing indicated that LNAPL recovery is not practical in the southeastern portion of the LNAPL Area.	While the compositional concerns can be addressed through institutional controls, LNAPL has been identified at the property boundary and may extent off Site. Therefore LNAPL recovery is recommended to minimize off Site impacts.	Based on the proximity of the AOI 83/84-5 LNAPL Area to the property boundary, LNAPL Recovery and Institutional Controls are recommended.	LNAPL Removal Institutional Controls - Sitewide and AOI Specific Control A
13	AOI 03-1 Quench Oil Area	Recovery Sump with a Belt Skimmer		LNAPL Monitoring and Bailing	Excavation	$770,000	Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	$6,400 Capital Costs $3,600/Year	Institutional Controls	$12,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1) Potential GSI pathway to Outfall 003 2) Potential Volatilization to Indoor Air Concerns for Future Structures	A historic IM addressed the suspected source area for this LNAPL Area in the southern portion of Building 30A; therefore, partial and effective LNAPL removal has already been completed and a transition to institutional controls is now appropriate.	The AOI 03-1 LNAPL Area appears to be stable.	LNAPL is present at monitoring well 010-02 (and its replacements 02-02R and 03-02R2) since 2001, indicating the LNAPL is mobile within the stable perimeter.	It is unlikely that future LNAPL recovery is practical as minimal LNAPL is currently present at AOI 03-1.	LNAPL is not readily recoverable	Institutional Controls	Institutional Controls - Sitewide and AOI Specific Controls B and C

Table 8. Remedy Cost Benefit Matrix
RACER Trust, Buick City Site, Flint, Michigan

Priority Ranking	Area of Interest	Completed Interim Measures (IM)			Potential Remedy Component #1				Potential Remedy Component #2				Potential Remedy Component #3				Potential Remedy Component #4				Potential Remedy Component #5				LNAPL Decision Tree [1]						Remedies Recommended
																									LNAPL Compositional Concerns		LNAPL Saturation Concerns				Are Controls Required?	
					Technology	Cost	OMM [2]	OMM Cost	Technology	Cost	OMM [2]	OMM Cost	Technology	Cost	OMM [2]	OMM Cost	Technology	Cost	OMM [2]	OMM Cost	Technology	Cost	OMM [2]	OMM Cost	Risk	Cost Benefit	Migration	Mobility	Recoverability	Cost Benefit		
16	AOI 02-B Hydraulic Oil Area	No Completed Interim Measures			Thermally-Enhanced LNAPL Recovery _ High Temperature Application [4]	$680,000 to $2.3M	Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	$6,400 Capital Costs $3,600/Year	Targeted Soil Mixing/Land farming [3]	~$500,000	Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	$6,400 Capital Costs $3,600/Year	Institutional Controls	$12,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1) Potential Volatilization to Indoor Air for a Future Structure	Based on the current understanding of risk conditions, the volatilization to indoor air compositional concern can be effectively mitigated through institutional controls.	The AOI 02-B LNAPL Area appears to be stable.	The LNAPL is mobile within the stable perimeter, as it is gauged in these monitoring wells. However the viscosity of the LNAPL in this Area is 362 cp, limiting its mobility.	LNAPL is not readily recoverable. Transmissivity testing was unable to be completed as the LNAPL was too viscous to accurately measure.	LNAPL is not readily recoverable.	Institutional Controls	Institutional Controls - Sitewide
17	AOI 36-S - Fuel Oil Area	Tank Farm (Source Area) Excavated	LNAPL Recovery Trenches and Sumps – 20 Years of LNAPL Recovery	Outfall 002 Storm Sewer Bulkheaded to Eliminate LNAPL Migration Pathway	002 Passive Recovery Trench Monitoring	$0 - Work completed as part of the Outfall 002 Bulkhead Installation	Inspect and Remove - The last downgradient manhole (prior to the bulkhead) will be inspected for LNAPL. Accumulated LNAPL will be removed for offsite disposal. Inspection and removal will be completed for up to 5 years.	$10,000/year [11]	Thermally-Enhanced LNAPL Recovery _ High Temperature Application [4]	$390,000 to $940,000	Downgradient Monitoring will be completed to monitor for the presence of LNAPL and constituents of concern (COCs). Monitoring will be completed for 30 years.	$6,400 Capital Costs $3,600/Year	Institutional Controls	$12,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1) LNAPL infiltration into Outfall 002 Storm Sewer (Addressed by Bulkhead) 2) Potential Volatilization to Indoor Air Concern for Future Structures	Based on the current understanding of risk conditions, the potential volatilization to indoor air risk can be effectively mitigated through institutional controls. Following removal of the source for this LNAPL Area (Tank Farm 27) an LNAPL recovery system consisting of two recovery trenches and sumps operated was installed to address LNAPL in the former source (AOI 36-S) area. As the source of this LNAPL area has been removed and partial and effective LNAPL removal has already been completed and a transition to institutional controls is now appropriate at AOI 36-S.	While the LNAPL is mobile in the vicinity of the storm sewer, it appears to be stable.	Historically LNAPL from AOI 36-S was infiltrating the Outfall 002 storm sewer; however, bulkheads and plugs have been installed to eliminate the Site's contribution to the storm sewer. In addition LNAPL is present in one monitoring well and one recovery well in the AOI 36-S area indicating that LNAPL is mobile within the stable perimeter.	The results of historic IMs indicate that in the past LNAPL has been recovered using recovery trenches and wells, and by flailing. However it is uncertain whether future LNAPL recovery is practical.	Compositional and mobility concerns can be addressed through engineering and institutional controls. Additionally, The LNAPL source area (Tank Farm 27) has been removed and an LNAPL recovery system has operated at AOI 36-S for approximately 20 years. Therefore, partial and effective LNAPL removal has already been completed and a transition to institutional controls is now appropriate. The marginal value of additional recovery does not justify the cost.	Based on LNAPL infiltration to the Outfall 002 storm sewer, Outfall 002 has been bulkheaded and monitoring of the Outfall 002 recovery trench is recommended.	002 Passive Recovery Trench Monitoring Institutional Controls - Sitewide and AOI Specific Control A

Notes:
Cost estimates for recommended remedy design and implementation are presentec in Appendix CC.

1. The LNAPL Decision Tree analysis is presented in its entirety as Attachment 2 of each of the LNAPL Remedy Recommendation memos (Appendices C through R). This table provides a brief summary of the concerns identified and the associated cost benefit discussion.

2. Remedy may include excavation or installation of surface cover dependent upon delineation activities.

3. Costs assume a discrete excavation event. However, if the excavation is completed with the 43-16S excavation activities costs would likely be minimal.

4. The system for AOI 59-B was included in the Southend Final Decision and no Remedy Recommendation Memo has been prepared for this AOI.

Table 9A. Recommended Remedy Summary
RACER Trust, Buick City Site, Flint, Michigan

Area of Interest	Recommended Remedy
AOI 86-1 - LNAPL	Outfall 004 Pathway Elimination 004 Passive Recovery Trench Institutional Controls - Sitewide and AOI Specific Controls A, B, and C
AOI 05-1/05-5 - LNAPL	Outfall 003 Pathway Elimination Targeted Excavation Institutional Controls - Sitewide and AOI Specific Controls A, B, C, and D
AOI 09-B - LNAPL	Multi-Phase Extraction System (Ongoing) Institutional Controls - Sitewide and AOI Specific Controls A and D
AOI 12-A,-B, & -C - LNAPL	Outfall 004 Pathway Elimination 004 Passive Recovery Trench Surface Cover (In addition to the cover previously installed per the Southend Final Decision) Institutional Controls - Sitewide and AOI Specific Controls A, B, C, and D
AOI 10-1/10-4 - LNAPL	Outfall 003 Pathway Elimination 003 Passive Recovery Trench Targeted Excavation Surface Cover Institutional Controls - Sitewide and AOI Specific Controls A, B, C, and D
AOI 81-2 - LNAPL	Targeted Excavation Institutional Controls - Sitewide and AOI Specific Controls A, B, C, and D
AOI 83/84-2 - LNAPL	Targeted Excavation Surface Cover 003 Passive Recovery Trench 005 Passive Recovery Trench Institutional Controls - Sitewide and AOI Specific Controls A, B, C, and D
AOI 36-1/36-2 - LNAPL	Multi-phase Extraction 002 Passive Recovery Trench Monitoring (Ongoing) Surface Cover Institutional Controls - Sitewide and AOI Specific Controls A and D
AOI 83/84-1 - LNAPL	Outfall 004 Pathway Elimination 004 Passive Recovery Trench Institutional Controls - Sitewide and AOI Specific Control A
AOI 83/84-4 - LNAPL	Institutional Controls - Sitewide
AOI 40-A, -B & 16-C - LNAPL	Outfall 009 and 010 Bulkhead Installation Institutional Controls - Sitewide and AOI Specific Controls A and D

Table 9A. Recommended Remedy Summary
RACER Trust, Buick City Site, Flint, Michigan

Area of Interest	Recommended Remedy
AOI 83/84-5 - LNAPL	LNAPL Recovery Institutional Controls - Sitewide and AOI Specific Control A
AOI 03-1 - LNAPL	Institutional Controls - Sitewide and AOI Specific Controls B and C
AOI 02-B - LNAPL	Institutional Controls - Sitewide
AOI 36-5 - LNAPL	002 Passive Recovery Trench Monitoring (Ongoing) Institutional Controls - Sitewide and AOI Specific Control A
AOI 38-1 - Soil	Targeted Excavation Surface Cover Institutional Controls - Sitewide and AOI Specific Controls A and D
AOI 83/84-3 - Soil	Surface Cover Institutional Controls - Sitewide and AOI Specific Controls A and D
AOI 40-A - Soil	Surface Cover Institutional Controls - Sitewide and AOI Specific Controls A and D
AOI 81-1 - Soil	Institutional Controls - Sitewide and AOI Specific Control D
AOI 81-2 - Soil	Surface Cover Institutional Controls - Sitewide and AOI Specific Controls A and D
AOI 86-1 Soil	Surface Cover Institutional Controls - Sitewide and AOI Specific Controls B and D
AOI 02-C - Soil [1]	Surface Cover (Completed) Institutional Controls - Sitewide and AOI Specific Controls A and D
AOI 12-A - Soil [1]	Surface Cover (Completed) Institutional Controls - Sitewide and AOI Specific Controls A and D
AOI 29-A - Soil [1]	Surface Cover (Completed) Institutional Controls - Sitewide and AOI Specific Controls A and D
AOI 09-A - Soil [1]	Excavation - Offsite Impacts (Completed) Surface Cover - Onsite Impacts (Completed) Institutional Controls - Sitewide and AOI Specific Controls A,. B, C and D
AOI 09-B - Soil [1]	Surface Cover (Completed) Institutional Controls - Sitewide and AOI Specific Controls A and D
AOI 40-D - Tunnel [1]	Institutional Controls - Sitewide and AOI Specific Control B
Outfall 002	To Be Determined
Outfall 003	To Be Determined
Outfall 004	To Be Determined
Outfall 005	To Be Determined

Table 9A. Recommended Remedy Summary
RACER Trust, Buick City Site, Flint, Michigan

Area of Interest	Recommended Remedy
WMU #3	Institutional Controls - Sitewide
WMU #7	Bulkhead at Outfalls 009 and 010 (Completed) Institutional Controls - Sitewide and AOI Specific Control A
WMU #10	Institutional Controls - Sitewide and AOI Specific Control E
Storm Sewer GSI Issues	To Be Determined

Notes:
1 - Remedy included in the 2010 Final Decision for the Southend of the Buick City Site.
AOI Specific Institutional Controls -

A	Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads.
B	Notify future owners of the presence of PCBs.
C	Restrict the area to low occupancy based on the presence of PCBs.
D	Prohibit any excavation or other intrusive activity that could affect the integrity of the surface cover that is present to prevent direct contact with contaminated material, except with using appropriate health and safety measures, during short-term construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the surface cover, that could affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original barrier upon completion of the work. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the Natural Resources and Environmental Protection Act.
E	Notify future owners to the potential presence of a listed hazardous waste beneath WMU #10.

Table 9B. Estimated Design, Capital and OMM Costs for Recommended Remedies
RACER Buick City Site, Flint, Michigan

Task		Est Design and Capital Costs							Short Term OMM Costs [5]								
		2014	2015	2016	2017	2018	2019	Total Est Design and Capital Costs	2014	2015	2016	2017	2018	2019	Total OMM [5]	Total Through 2019	Long Term OMM (Post 2019) [5, 6]
Task 1 - Outfall 003/004 Oil Removal Systems		$0	$0	$0	$0	$0	$0	$0	$75,000	$75,000	$75,000	$50,000	$50,000	$50,000	$375,000	$375,000	$2,000,000
Task 3 -LNAPL Recovery Bench and Field-Scale Pilot Testing		$250,000	$120,000	$0	$0	$0	$0	$370,000	$0	$0	$0	$0	$0	$0	$0	$370,000	$0
Task 6 - Maintain Booms on Outfalls		$0	$0	$0	$0	$300,000	$0	$300,000	$170,000	$150,000	$100,000	$50,000	$50,000	$50,000	$570,000	$870,000	$0
Task 7 - Standard Groundwater Monitoring		$0	$0	$0	$0	$0	$0	$0	$80,000	$80,000	$80,000	$80,000	$80,000	$80,000	$480,000	$480,000	$2,925,000
Task 8 - NPDES PLUS Monitoring																	
	Annual Monitoring	$0	$0	$0	$0	$0	$0	$0	$60,000	$40,000	$40,000	$40,000	$40,000	$40,000	$260,000	$260,000	$1,925,000
	Mercury Issues	$150,000	$75,000	$75,000	$0	$0	$0	$300,000	$0	$0	$0	$0	$0	$0	$0	$300,000	$0
Task 12 - Agency Coord./ Negotiation, Reporting & Project Management / Coordination		$0	$0	$0	$0	$0	$0	$0	$195,000	$200,000	$200,000	$200,000	$150,000	$150,000	$1,095,000	$1,095,000	$1,515,000
Supplemental Investigation		$580,000	$170,000	$0	$0	$0	$0	$750,000	$0	$0	$0	$0	$0	$0	$0	$750,000	$0
Addressing Soil Impacts																	
	Southend [2]	$0	$0	$0	$0	$0	$0	$0	$1,800	$1,800	$1,800	$1,800	$1,800	$0	$9,000	$9,000	$10,800
	AOI 38-1	$85,000	$0	$0	$0	$0	$0	$85,000	$0	$0	$1,800	$1,800	$1,800	$1,800	$7,200	$92,200	$10,800
	AOI 40-A	$25,000	$0	$0	$0	$0	$0	$25,000	$0	$0	$1,800	$1,800	$1,800	$1,800	$7,200	$32,200	$10,800
	AOI 86-1	$0	$15,000	$10,000	$0	$0	$0	$25,000	$0	$0	$1,800	$1,800	$1,800	$1,800	$7,200	$32,200	$10,800
	AOI 83/84-3	$0	$5,000	$20,000	$0	$0	$0	$25,000	$0	$0	$1,800	$1,800	$1,800	$1,800	$7,200	$32,200	$10,800
	AOI 12-A -B, and -C	$0	$0	$25,000	$0	$0	$0	$25,000	$0	$0	$1,800	$1,800	$1,800	$1,800	$7,200	$32,200	$10,800
	AOI 10-1/10-4	$0	$5,000	$20,000	$0	$0	$0	$25,000	$0	$0	$1,800	$1,800	$1,800	$1,800	$7,200	$32,200	$10,800
	AOI 83/84-2	$0	$5,000	$20,000	$0	$0	$0	$25,000	$0	$0	$1,800	$1,800	$1,800	$1,800	$7,200	$32,200	$10,800
	AOI 36-1/36-2	$0	$5,000	$20,000	$0	$0	$0	$25,000	$0	$0	$1,800	$1,800	$1,800	$1,800	$7,200	$32,200	$10,800
Remedy Design, Implementation, and OMM																	
1	AOI 86-1 Fuel Oil Area 1, 3	$0	$10,000	$312,600	$0	$0	$0	$322,600	$0	$0	$15,000	$15,000	$15,000	$10,000	$55,000	$377,600	$35,000
2	AOIs 05-1/05-5 Cutting Oil Area [4]	$100,000	$700,000	$2,417,000	$712,600	$0	$0	$3,929,600	$0	$0	$0	$5,000	$5,000	$5,000	$15,000	$3,944,600	$565,000
3	AOI 09-B - Gasoline Area	$36,000	$12,600	$0	$0	$0	$0	$48,600	$250,000	$65,000	$15,000	$15,000	$15,000	$15,000	$375,000	$423,600	$375,000
4	AOIs 12-A, B, & C - Hydraulic Oil Areas 1, 3	$160,000	$12,600	$0	$0	$0	$0	$172,600	$0	$16,800	$16,800	$16,800	$11,800	$11,800	$74,000	$246,600	$44,000
5	AOIs 10-1/10-4 Hydraulic Oil Area [4]	$100,000	$640,000	$1,050,000	$600,000	$0	$0	$2,390,000	$0	$0	$16,800	$24,300	$24,300	$19,000	$84,400	$2,474,400	$233,000
6	AOI 81-2 Cutting Oil Area	$30,000	$250,000	$31,600	$0	$0	$0	$311,600	$0	$0	$0	$10,800	$10,800	$10,800	$32,400	$344,000	$291,600
7	AOI 83/84-2 Cutting Oil Area	$0	$146,000	$19,000	$0	$0	$0	$165,000	$0	$20,000	$25,400	$25,400	$25,400	$25,400	$121,600	$286,600	$104,400
8, 14, 15	AOI 36-1/AOI 36-2 LNAPL Area	$50,000	$845,000	$49,600	$0	$0	$0	$944,600	$10,000	$179,800	$354,800	$211,800	$36,800	$16,800	$810,000	$1,754,600	$414,000
9	AOI 83/84-1 Area 1, 3	$30,000	$10,000	$102,600	$0	$0	$0	$142,600	$0	$0	$15,000	$15,000	$15,000	$10,000	$55,000	$197,600	$35,000
10	AOI 83/84-4 Cutting Oil Area	$0	$0	$12,600	$0	$0	$0	$12,600	$0	$0	$0	$0	$0	$0	$0	$12,600	$0
11	AOI 40-A,B and 16-C - Fuel Oil Areas	$110,000	$0	$12,600	$0	$0	$0	$122,600	$0	$5,000	$5,000	$5,000	$0	$0	$15,000	$137,600	$25,000
12	AOI 83/84-5 Area	$100,000	$150,000	$12,600	$36,000	$0	$0	$298,600	$0	$40,000	$80,000	$47,500	$15,000	$15,000	$197,500	$496,100	$405,000
13	AOI 03-1 Quench Oil Area	$0	$0	$12,600	$0	$0	$0	$12,600	$0	$0	$0	$0	$0	$0	$0	$12,600	$0
16	AOI 02-B Hydraulic Oil Area	$0	$0	$12,600	$0	$0	$0	$12,600	$0	$0	$0	$0	$0	$0	$0	$12,600	$0
17	AOI 36-5 - Fuel Oil Area	$0	$0	$12,600	$0	$0	$0	$12,600	$10,000	$10,000	$10,000	$10,000	$0	$0	$40,000	$52,600	$0
	WMU #3, #7, #10	$0	$0	$12,600	$0	$0	$0	$12,600	$0	$0	$0	$0	$0	$0	$0	$12,600	$0
Outfall Exit Strategy																	
	Outfall 002 Exit	$0	$100,000	$200,000	$300,000	$0	$0	$600,000	$0	$0	$20,000	$20,000	$20,000	$0	$60,000	$660,000	$0
	Outfall 003 Exit	0	$0	$0	$800,000	0	0	$800,000	0	0	$0	$20,000	$20,000	0	$40,000	$840,000	$0
	Outfall 004 Exit	$0	$0	$0	$650,000	$0	$0	$650,000	$0	$0	$0	$20,000	$20,000	$0	$40,000	$690,000	$0
	Outfall 005 Exit	$40,000	$20,000	$20,000	$0	$0	$0	$80,000	$0	$5,000	$5,000	$5,000	$0	$0	$15,000	$95,000	$0
Totals		$1,846,000	$3,296,200	$4,480,600	$3,098,600	$300,000	$0	$13,021,400	$851,800	$888,400	$1,090,000	$902,800	$620,300	$523,200	$4,876,500	$17,897,900	$10,989,200

Footnotes:

1 OMM requirements from City following re-route of Outfall 004 and 013 are unknown at this time.

2 Southend Soil AOIs - AOI 02-C, AOI 09-A, AOI -09B, AOI 12-A, and AOI 29-A - required surface covers have already been installed.

3 Costs assume that recommended remedies for AOI 86-1, AOI 12-A, -B, & -C, and AOI 83/84-1 will all be implemented. Costs for the Outfall 004 Pathway Elimination Remedies are split across the LNAPL Areas.

4 Costs assume that recommended remedies for AOI 05-1/05-5 and AOI 10-1/10-4 will all be implemented. Costs for the Outfall 003 Pathway Elimination Remedies are split across the LNAPL Areas.

5 Timeframes of OMM are estimated for cost estimating purposes only and will be refined as appropriate in Corrective Measures Impementation (CMI) documentation. In most cases OMM has been projected out approximately 30 years, except where unnecessary. However if monitoring reveals 3 consecutive years of compliance monitoring will be discontinued.

6 See Table 9C for the rationale for the Long Term OMM Costs.

Table 9C. Long Term OMM Rationale
RACER Buick City Site, Flint, Michigan

Task		Rationale	Long Term OMM (Post 2019) [4]
Task 1 - Outfall 003/004 Oil Removal Systems		Includes costs for Post 2019 OMM activities as documented in the RCES Scope of Work.	$2,000,000
Task 3 -LNAPL Recovery Bench and Field-Scale Pilot Testing		NA	$0
Task 6 - Maintain Booms on Outfalls		NA	$0
Task 7 - Standard Groundwater Monitoring		Includes costs for Post 2019 OMM activities as documented in the RCES Scope of Work.	$2,925,000
Task 8 - NPDES PLUS Monitoring		Includes costs for Post 2019 OMM activities as documented in the RCES Scope of Work.	$1,925,000
Task 12 - Agency Coord./ Negotiation, Reporting & Project Management / Coordination		Includes costs for Post 2019 OMM activities as documented in the RCES Scope of Work.	$1,515,000
Supplemental Investigation		NA	$0
Addressing Soil Impacts			
	Southend	The surface cover OMM costs assumes that inspections will be completed on an annual basis for 5 years and then once every 5 years for the next 25 years. It is assumed that the first four inspection events will be completed prior to 2019 and that post 2019 6 insepction events will remain at a cost of $1,800 per event.	$10,800
	AOI 38-1		$10,800
	AOI 40-A		$10,800
	AOI 86-1		$10,800
	AOI 83/84-3		$10,800
	AOI 12-A -B, and -C		$10,800
	AOI 10-1/10-4		$10,800
	AOI 83/84-2		$10,800
	AOI 36-1/36-2		$10,800
Remedy Design, Implementation, and OMM			
1	AOI 86-1 Fuel Oil Plume [1, 2]	Long term OMM for the 004 Pathway Elimination includes inspections once every 5 years for the next 25 years at a cost of $5,000 per event. OMM of the 004 Passive recovery Trench will include inspection and removal of LNAPL once (Post 2019) at a cost of $10,000.	$35,000
2	AOIs 05-1/05-5 Cutting Oil Area [3]	Long term OMM for the 003 Pathway Elimination includes inspections once every 5 years for the next 25 years at a cost of $5,000 per event. Downgradient monitoring of the Targeted Excavations is estimated to cost $18,000/year for 30 years	$565,000
3	AOI 09-B - Gasoline Area	Downgradient monitoring of AOI 09-B is estimated to cost $15,000/year for 25 years	$375,000
4	AOIs 12-A, B, & C - Hydraulic Oil Plumes [1,2]	Long term OMM for the 004 Pathway Elimination includes inspections once every 5 years for the next 25 years at a cost of $5,000 per event Long term OMM for surface Cover will include inpections once every 5 years for the next 25 years at a cost of $1,800 per event. . OMM of the 004 Passive recovery Trench will include inspection and removal of LNAPL once (Post 2019) at a cost of $10,000.	$44,000
5	AOIs 10-1/10-4 Hydraulic Oil Area [3]	Long term OMM for the 003 Pathway Elimination includes inspections once every 5 years for the next 25 years at a cost of $5,000 per event. OMM of the 003 Passive recovery Trench will include inspection and removal of LNAPL once (Post 2019) at a cost of $10,000 Long term OMM for Surface Cover will include inpections will include 6 inspections (Post 2019) at a cost of $1,800 per event. Downgradient monitoring of the Targeted Excavations is estimated to cost $7,200/year for 26 years	$233,000

Table 9C. Long Term OMM Rationale
RACER Buick City Site, Flint, Michigan

Task		Rationale	Long Term OMM (Post 2019) [4]
6	AOI 81-2 Cutting Oil Area	Downgradient monitoring of the Targeted Excavations is estimated to cost $10,800/year for 27 years	$291,600
7	AOI 83/84-2 Cutting Oil Area	Downgradient monitoring of the Targeted Excavations is estimated to cost $3,600/year for 26 years Long term OMM for Surface Cover will include inpections will include 6 inspections (Post 2019) at a cost of $1,800 per event	$104,400
8, 14, 15	AOI 36-1/AOI 36-2 LNAPL Area	Downgradient monitoring of the MPE area is estimated to cost $15,000/year for 27 years Long term OMM for Surface Cover will include inpections will include 5 inspections (Post 2019) at a cost of $1,800 per event	$414,000
9	AOI 83/84-1 Plume [1, 2]	Long term OMM for the 004 Pathway Elimination includes inspections once every 5 years for the next 25 years at a cost of $5,000 per event. OMM of the 004 Passive recovery Trench will include inspection and removal of LNAPL once (Post 2019) at a cost of $10,000.	$35,000
10	AOI 83/84-4 Cutting Oil Plume	NA	$0
11	AOI 40-A,B and 16-C - Fuel Oil Plumes	Long term OMM for the bulkheads include inspections once every 5 years for the next 25 years at a cost of $5,000 per event.	$25,000
12	AOI 83/84-5 Area	Downgradient monitoring of the LNAPL Recovery area is estimated to cost $15,000/year for 27 years	$405,000
13	AOI 03-1 Quench Oil Plume	NA	$0
16	AOI 02-B Hydraulic Oil Plume	NA	$0
17	AOI 36-5 - Fuel Oil Area	NA	$0
	WMU #3, #7, #10	NA	$0
Outfall Exit Strategy [5]			
	Outfall 002 Exit	NA	$0
	Outfall 003 Exit	NA	$0
	Outfall 004 Exit	NA	$0
	Outfall 005 Exit	NA	$0
	Totals		$10,989,200

Footnotes:

1 OMM requirements from City following re-route of Outfall 004 and 013 are unknown at this time.

2 Costs assume that recommended remedies for AOI 86-1, AOI 12-A, -B, & -C, and AOI 83/84-1 will all be implemented. Costs for the Outfall 004 Pathway Elimination Remedies are split across the LNAPL Areas.

3 Costs assume that recommended remedies for AOI 05-1/05-5 and AOI 10-1/10-4 will all be implemented. Costs for the Outfall 003 Pathway Elimination Remedies are split across the LNAPL Areas.

4 Timeframes of OMM are estimated for cost estimating purposes only and will be refined as appropriate in Corrective Measures Impementation (CMI) documentation. In most cases, OMM has been projected out approximately 30 years, except where unnecessary. However, if monitoring reveals 3 consecutive years of compliance monitoring will be discontinued.

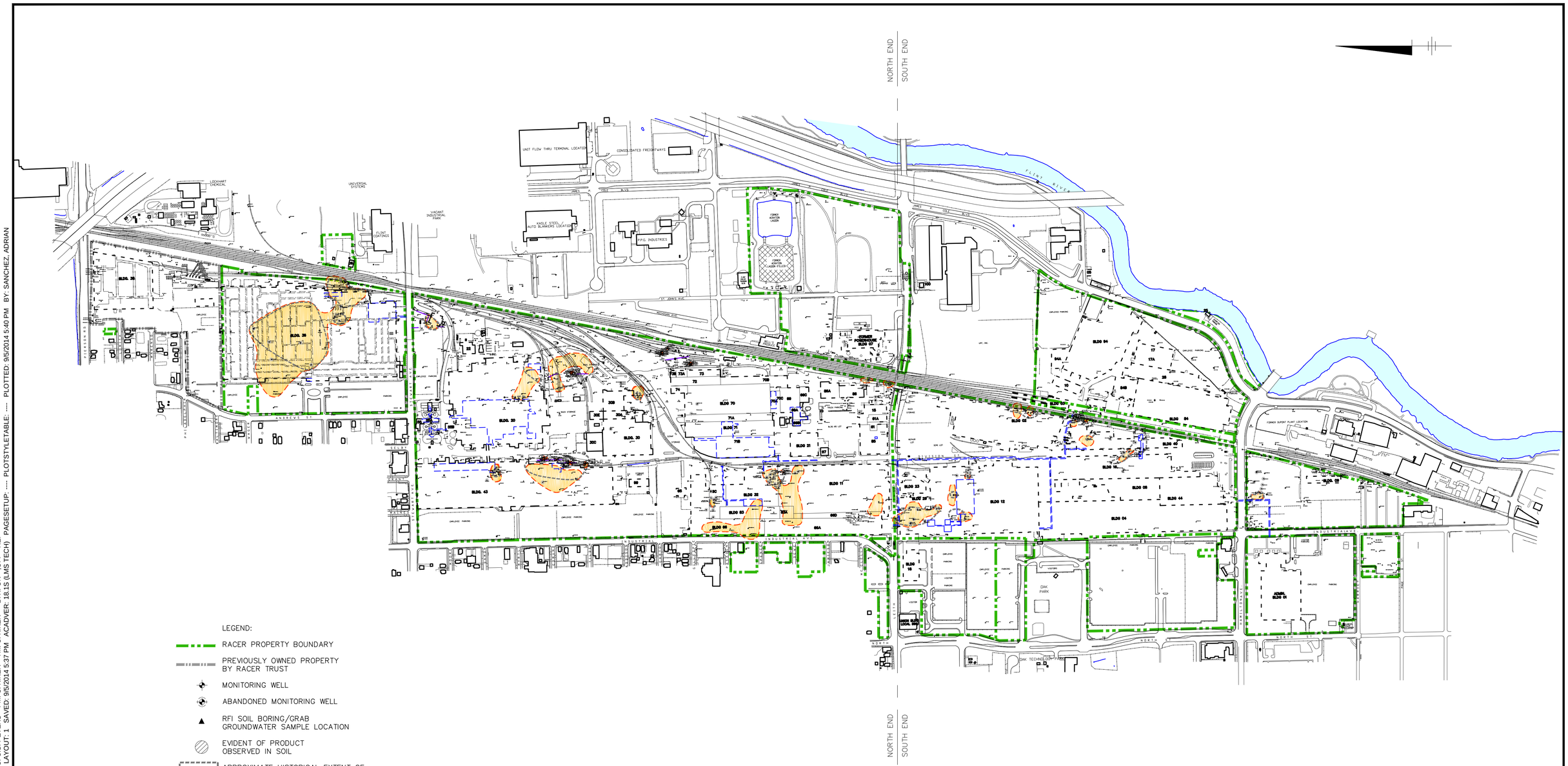
5 OMM requirements for Outfalls 002 through 005 are unknown at this time.

Table 10. Institutional Controls, Remedy Recommendation Report
RACER Buick City, Flint, Michigan

Institutional Control	General Site-wide Institutional Control Description
Land Use Restriction	*Property use must remain nonresidential.*
Groundwater Use Restriction	*Prohibit use of groundwater for any use other than sampling, investigatory, remediation, or short-term dewatering purposes.*
Surface Cover Restriction	*If Owner elects to remove any slabs, pavement or other impervious surface on the Property, Owner shall be responsible for any and all obligations under environmental laws arising from any such removal, alteration or disturbance, whether or not caused by, arising from or related to, an environmental condition.*
Vapor Intrusion Restriction	*The Owner shall not build or occupy any building on the property without first completing one of the following: Option 1) Evaluate and determine, with DEQ concurrence, the absence of an unacceptable vapor intrusion risk to human health in any existing or newly constructed site buildings, or Option 2) Install, operate and maintain a vapor barrier and/or mitigation system designed to eliminate the potential for subsurface vapor phase hazardous substances to migrate into the building at concentrations greater than applicable criteria. Continued operation and maintenance of the vapor barrier and/or mitigation system is necessary until it is determined that it is no longer necessary consistent with Option 1 above. For guidance on vapor intrusion issues, please refer to DEQ and U.S. EPA guidance applicable at the time. This prohibition does not apply to short-term occupancy of a building for purposes of construction, renovation, repair, or other short-term activities provided adequate health and safety precautions are employed during these activities and they are performed in compliance with Section 20107a of the NREPA.*
Soil Management Restriction	*The Owner shall manage contaminated soils, media and/or debris and all other soils located on the Property in accordance with the requirements of Part 111, Subtitle C of the Resource Conservation and Recovery Act, 42 U.S.C. Section 6901 et seq. (RCRA), the administrative rules promulgated pursuant to Part 111 and the RCRA, and all other relevant state and federal laws, including but not limited to MCL 324.20120c.*
Hazardous Substance Restriction	*Owner shall not "treat," "store," "dispose" or release any Hazardous Substances, on, at, or below the Property, in a manner that would require a permit under RCRA, 42 U.S.C. §§ 6901 et seq. or equivalent state Law, except pursuant to a plan or permit approved in writing by MDEQ or USEPA.*

ARCADIS

Figures



LEGEND:

- RACER PROPERTY BOUNDARY
- PREVIOUSLY OWNED PROPERTY BY RACER TRUST
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)

0 400' 800'

APPROXIMATE SCALE IN FEET

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

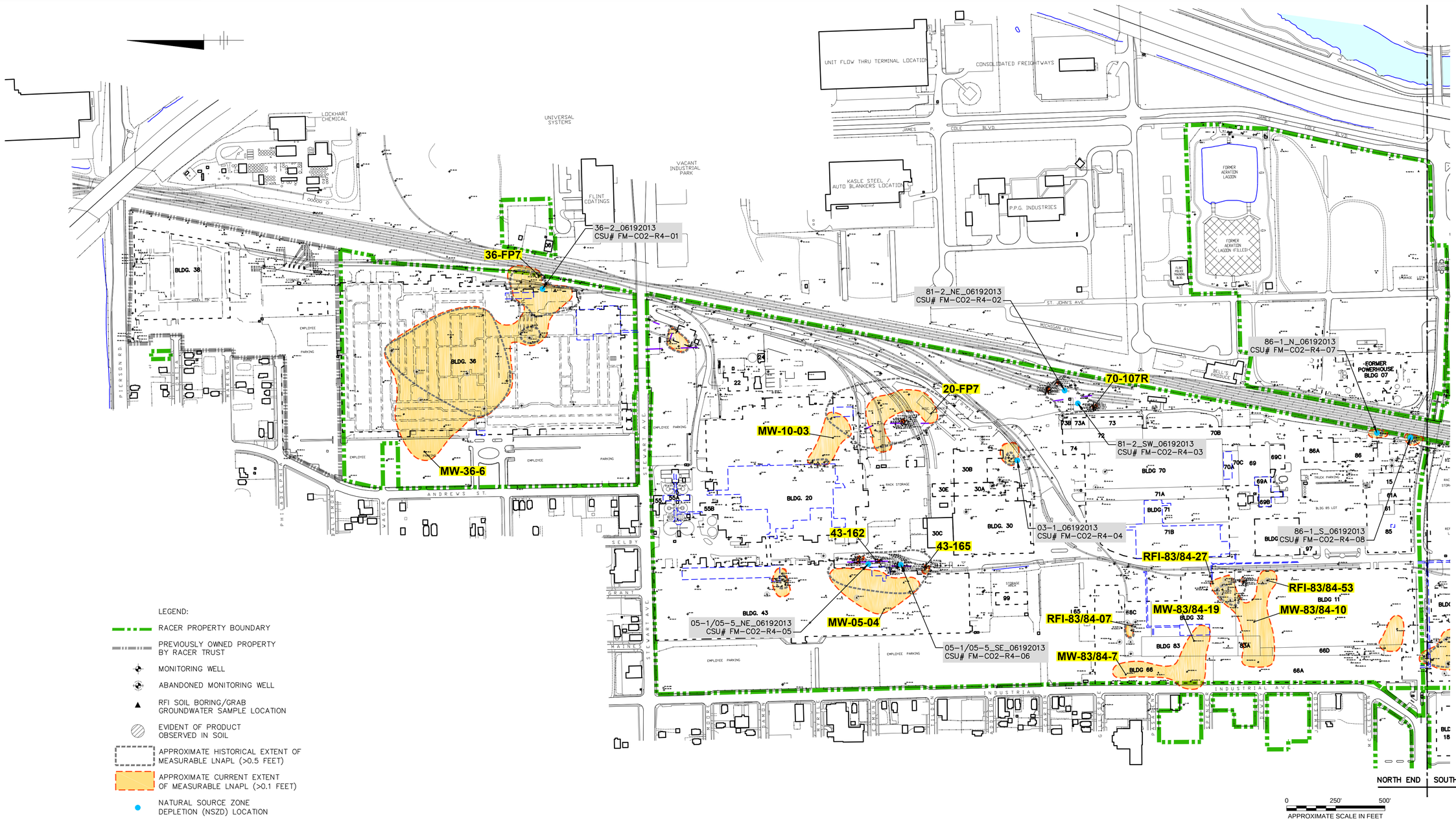
REMEDY RECOMMENDATION REPORT

SITE MAP

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FIGURE 1

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\0064410\2014\60206\B64410_RRR.dwg LAYOUT: 1 SAVED: 9/5/2014 5:37 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 9/5/2014 5:40 PM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME: ----



LEGEND:

- RACER PROPERTY BOUNDARY
- PREVIOUSLY OWNED PROPERTY BY RACER TRUST
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- NATURAL SOURCE ZONE DEPLETION (NSZD) LOCATION
- RFI-83/84-07 TRANSMISSIVITY LOCATION

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

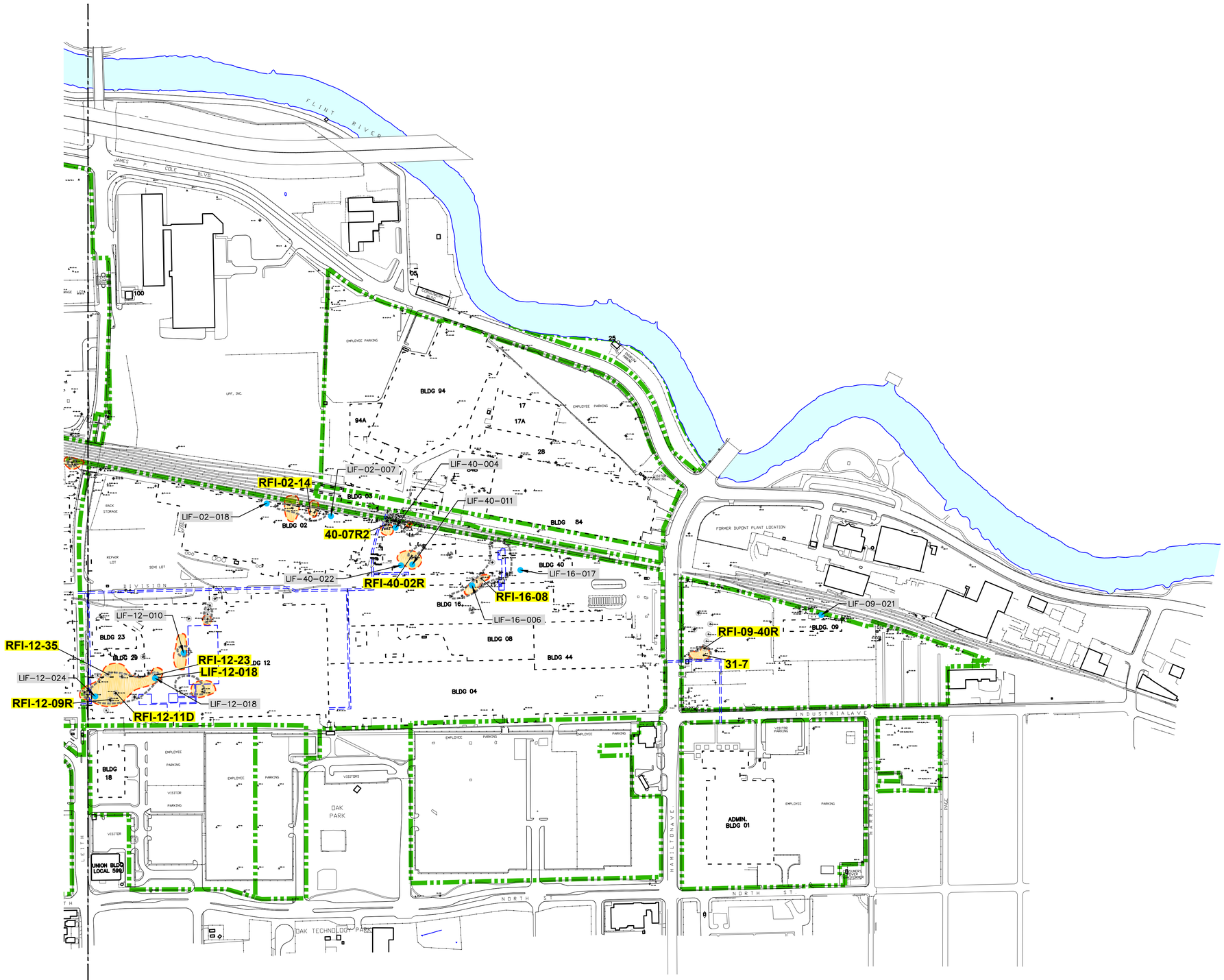
RACER TRUST
BUICK CITY
FLINT, MICHIGAN
REMEDY RECOMMENDATION REPORT

NORTHEND - HISTORICAL AND CURRENT LNAPL EXTENTS

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FIGURE
2

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\B0064410\2014\00206\B64410_RRR.dwg LAYOUT: 2 SAVED: 9/5/2014 5:37 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 9/5/2014 5:41 PM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME: ----



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- NATURAL SOURCE ZONE DEPLETION (NSZD) LOCATION
- RFI-09-40R TRANSMISSIVITY LOCATION

0 250' 500'
APPROXIMATE SCALE IN FEET

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
REMEDY RECOMMENDATION REPORT

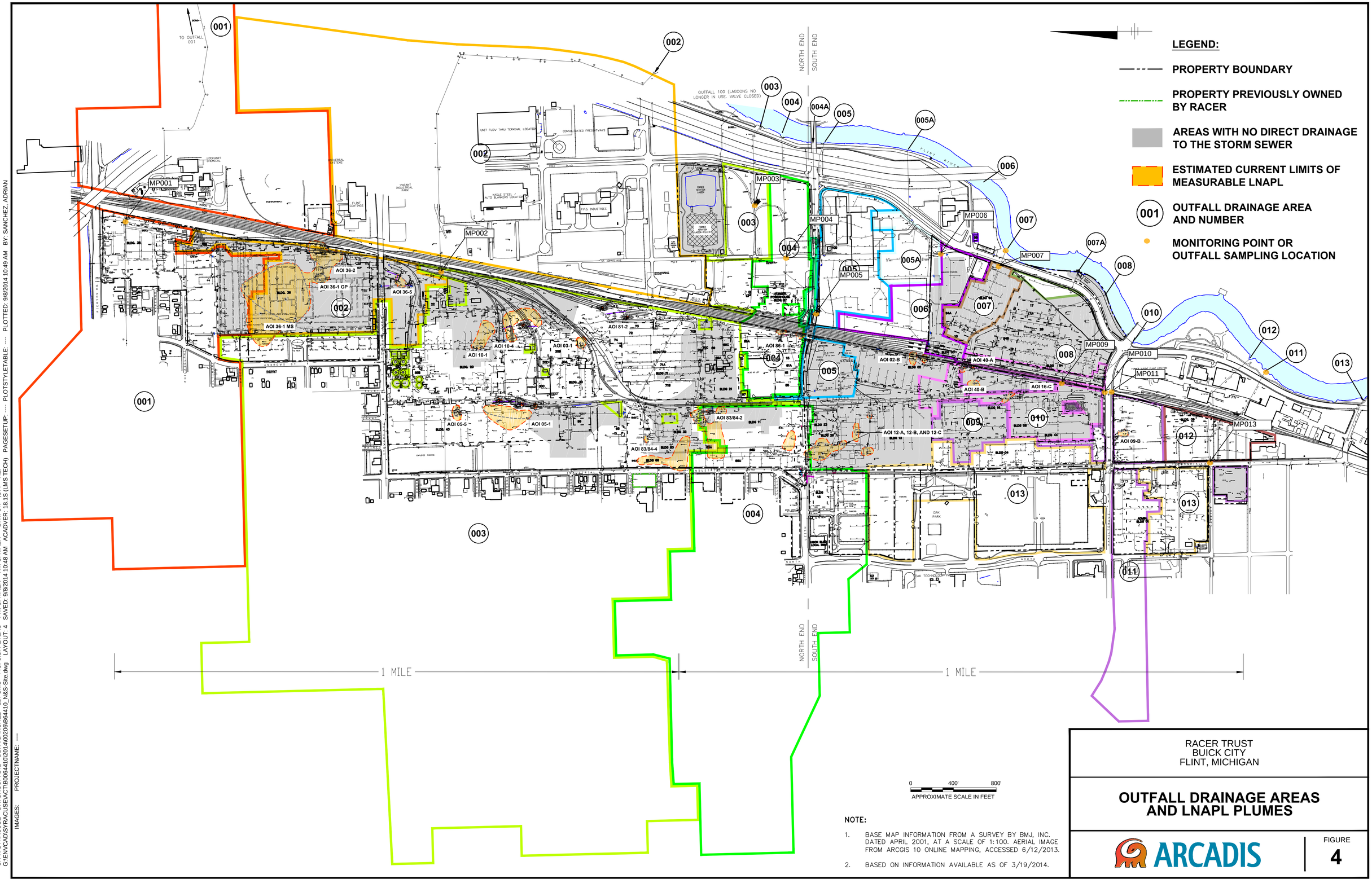
SOUTHEND - HISTORICAL AND CURRENT LNAPL EXTENTS

ARCADIS

FIGURE
3

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
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IMAGES: PROJECTNAME: ----

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IMAGES: PROJECTNAME: ----



NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

OUTFALL DRAINAGE AREAS AND LNAPL PLUMES

ARCADIS

FIGURE
4

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB0064410\2014\00206\B64410_RRR.dwg LAYOUT: 5 SAVED: 9/5/2014 5:37 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 9/5/2014 5:42 PM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME: ----



LEGEND:

- RACER PROPERTY BOUNDARY
- PREVIOUSLY OWNED PROPERTY BY RACER TRUST
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- AREAS WITH NO DIRECT DRAINAGE TO THE STORM SEWER
- RECOVERY TRENCH
- STORM SEWER
- STORM SEWER BULKHEAD LOCATION
- 001 OUTFALL DRAINAGE AREA AND NUMBER

NORTH END | SOUTH END

0 250' 500'
APPROXIMATE SCALE IN FEET

NOTE:

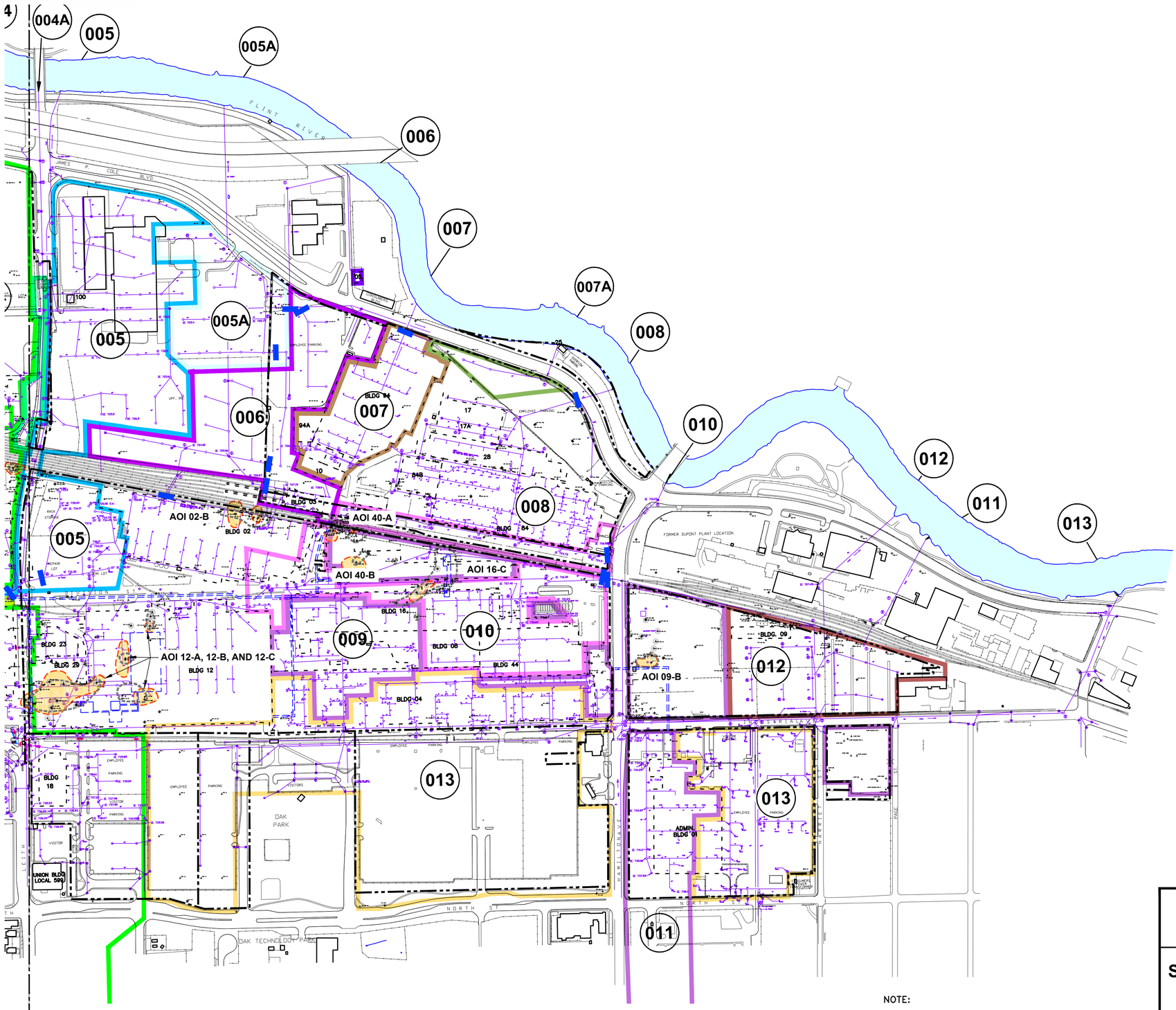
1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
REMEDY RECOMMENDATION REPORT

NORTHEND - STORM SEWER, DRAINAGE AREA, AND BULKHEAD LOCATIONS

ARCADIS

FIGURE
5



LEGEND:

- RACER PROPERTY BOUNDARY
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- AREAS WITH NO DIRECT DRAINAGE TO THE STORM SEWER
- STORM SEWER
- STORM SEWER BULKHEAD LOCATION
- 001 OUTFALL DRAINAGE AREA AND NUMBER

0 250' 500'
APPROXIMATE SCALE IN FEET

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
REMEDY RECOMMENDATION REPORT

SOUTHEND - STORM SEWER, DRAINAGE AREA, AND BULKHEAD LOCATIONS

ARCADIS

FIGURE 6

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
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IMAGES: PROJECTNAME: ----
PLOTTED: 9/5/2014 5:43 PM BY: SANCHEZ, ADRIAN



LEGEND:

- RACER PROPERTY BOUNDARY
- PREVIOUSLY OWNED PROPERTY BY RACER TRUST
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- APPROXIMATE AOI BOUNDARY
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- PIPELINE
- PRIMARY CABLE
- PIPING
- FIRE PIPING
- GAS LINE
- PROCESS PIPING
- SANITARY PIPING
- STORM SEWER

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. ALL LOCATIONS ARE APPROXIMATE.

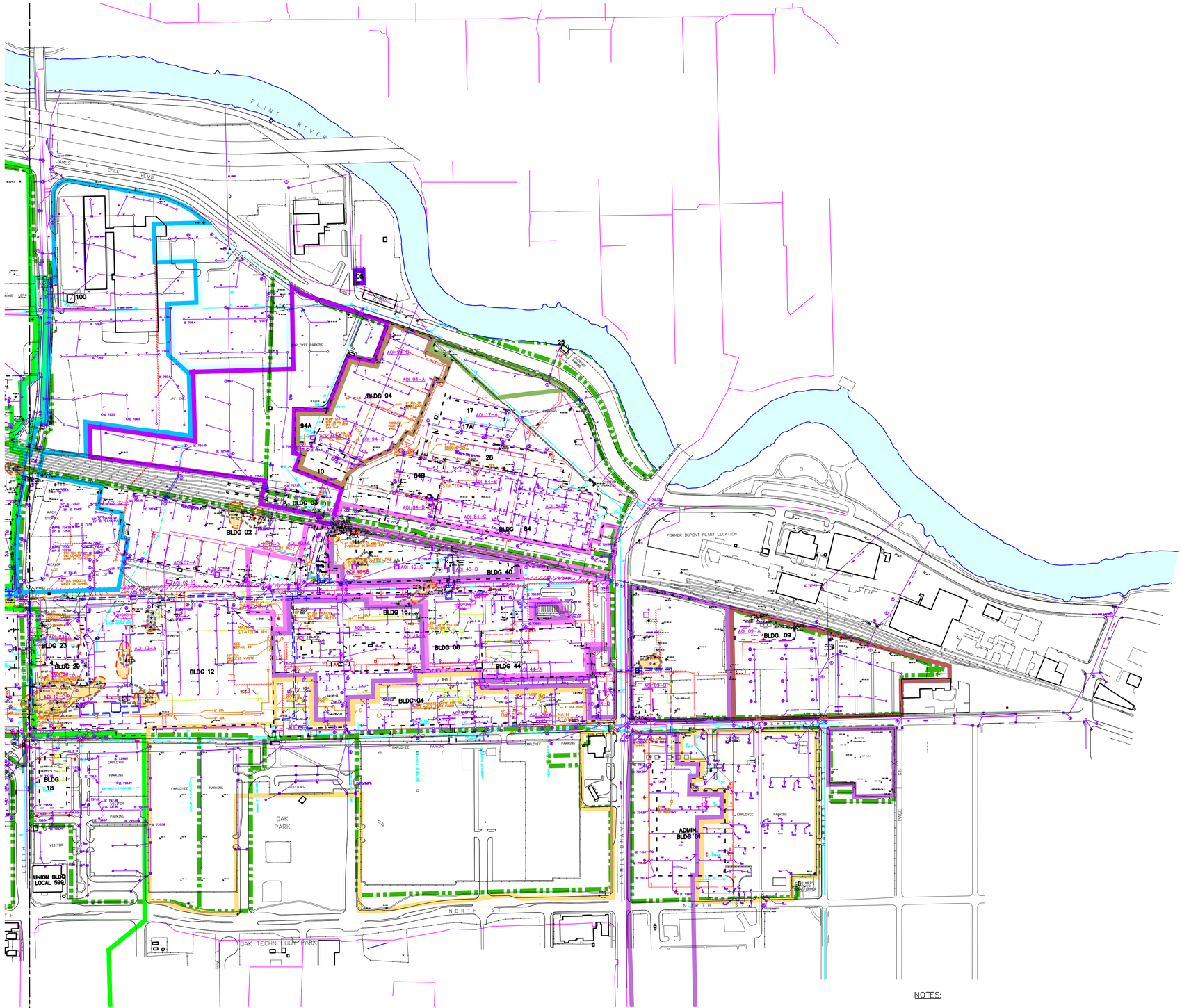
RACER TRUST
BUICK CITY
FLINT, MICHIGAN
REMEDY RECOMMENDATION REPORT

NORTHEND - UTILITIES

ARCADIS

FIGURE
7

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
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IMAGES: PROJECTNAME: ----



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- APPROXIMATE AOI BOUNDARY
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- PIPELINE
- PRIMARY CABLE
- PIPING
- FIRE PIPING
- GAS LINE
- PROCESS PIPING
- SANITARY PIPING
- STORM SEWER

0 250' 500'
APPROXIMATE SCALE IN FEET

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. ALL LOCATIONS ARE APPROXIMATE.

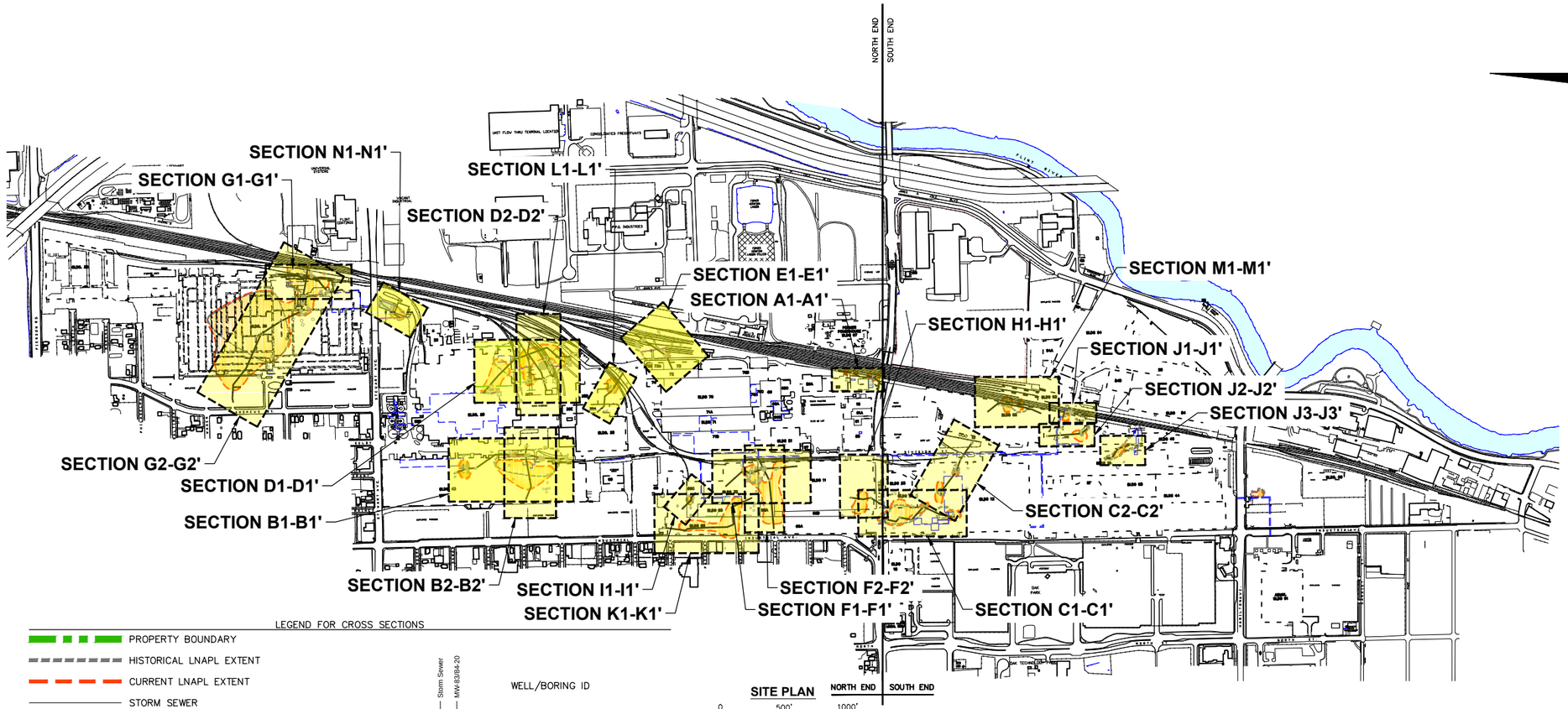
RACER TRUST
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FLINT, MICHIGAN
REMEDY RECOMMENDATION REPORT

SOUTHEND - UTILITIES

ARCADIS

FIGURE
8

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
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SITE PLAN

NORTH END | SOUTH END

0 500' 1000'

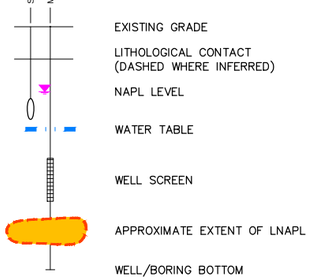
GRAPHIC SCALE

LEGEND FOR CROSS SECTIONS

- PROPERTY BOUNDARY
- HISTORICAL LNAPL EXTENT
- CURRENT LNAPL EXTENT
- STORM SEWER
- ABANDONED STORM SEWER LATERAL
- APPROXIMATE LOCATION OF RECOVERY TRENCH
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- A1 — A1' LINE OF SECTION
- RFI MONITORING WELL LOCATION
- MONITORING WELL LOCATION
- RECOVERY WELL (NAPL) LOCATION
- PIEZOMETER LOCATION
- SOIL BORING LOCATION
- DECOMMISSIONED WELL LOCATION
- EVIDENCE OF PRODUCT OBSERVED IN SOIL

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

- <5
- 5–10
- 10–100
- 100–200
- >200
- HAND AUGER REFUSAL (TOP 5')
- GROUNDWATER SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- GROUNDWATER SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- SOIL SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES DO NOT EXCEED APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES EXCEED ONE OR MORE APPLICABLE CRITERIA



- WELL/BORING ID
- EXISTING GRADE
- LITHOLOGICAL CONTACT (DASHED WHERE INFERRED)
- NAPL LEVEL
- WATER TABLE
- WELL SCREEN
- APPROXIMATE EXTENT OF LNAPL
- WELL/BORING BOTTOM
- ASPHALT
- CONCRETE
- CLAY
- FILL
- GRAVEL
- INTERBEDDED SAND AND CLAY
- INTERBEDDED SANDS AND SILTS
- INTERBEDDED SILT AND CLAY
- SAND
- SILT
- SILTY SAND

NOTES:

1. BASE MAP INFORMATION FROM SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.
2. GEOLOGY NOT INTERPRETED FROM LASER INDUCED FLUORESCENCE (LIF) BORINGS.
3. BASED ON INFORMATION AVAILABLE AS OF 03.19.2014.

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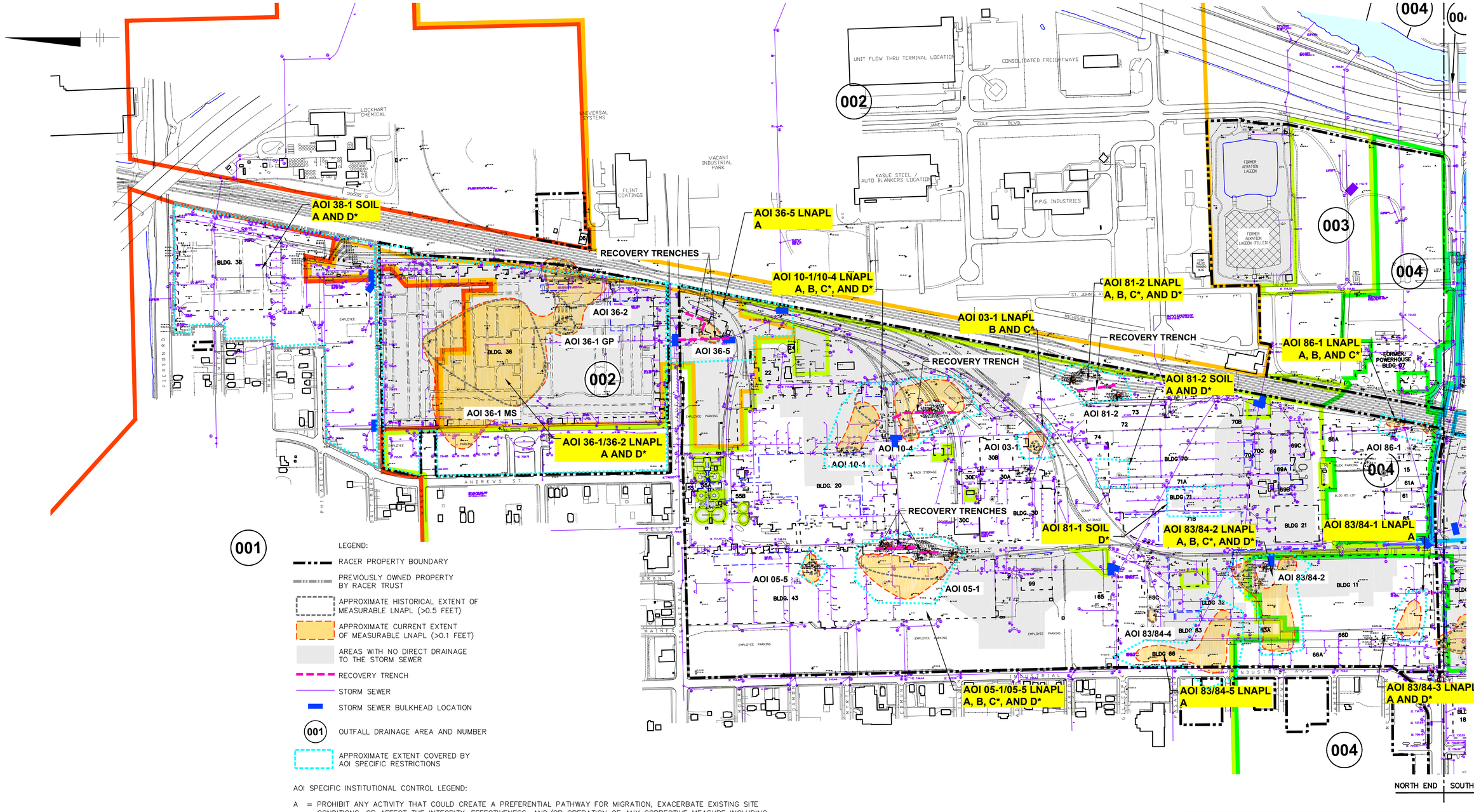
CROSS-SECTION LOCATION MAP AND LEGEND

ARCADIS

FIGURE 9

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
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IMAGES: PROJECTNAME: ----



LEGEND:

- RACER PROPERTY BOUNDARY
- PREVIOUSLY OWNED PROPERTY BY RACER TRUST
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- AREAS WITH NO DIRECT DRAINAGE TO THE STORM SEWER
- RECOVERY TRENCH
- STORM SEWER
- STORM SEWER BULKHEAD LOCATION
- 001 OUTFALL DRAINAGE AREA AND NUMBER
- APPROXIMATE EXTENT COVERED BY AOI SPECIFIC RESTRICTIONS

AOI SPECIFIC INSTITUTIONAL CONTROL LEGEND:

A = PROHIBIT ANY ACTIVITY THAT COULD CREATE A PREFERENTIAL PATHWAY FOR MIGRATION, EXACERBATE EXISTING SITE CONDITIONS, OR AFFECT THE INTEGRITY, EFFECTIVENESS, AND/OR OPERATION OF ANY CORRECTIVE MEASURE INCLUDING STORM SEWER BULKHEADS.

B = NOTIFY FUTURE OWNERS OF THE PRESENCE OF PCBs.

C* = RESTRICT THE AREA TO LOW OCCUPANCY BASED ON THE PRESENCE OF PCBs.

D* = PROHIBIT ANY EXCAVATION OR OTHER INTRUSIVE ACTIVITY THAT COULD AFFECT THE INTEGRITY OF THE SURFACE COVER THAT IS PRESENT TO PREVENT DIRECT CONTACT WITH CONTAMINATED MATERIAL, EXCEPT WITH USING APPROPRIATE HEALTH AND SAFETY MEASURES, DURING SHORT-TERM CONSTRUCTION OR REPAIR PROJECTS, OR FOR PURPOSES OF FURTHER TREATING OR REMEDIATING THE SUBJECT CONTAMINATION. ANY EXCAVATION OR OTHER INTRUSIVE ACTIVITY, INCLUDING REMOVING, ALTERING, OR DISTURBING THE SURFACE COVER, THAT COULD AFFECT THE INTEGRITY OF THE BARRIER, MUST BE REPLACED WITH A COVER THAT PROVIDES AT LEAST AN EQUIVALENT DEGREE OF PROTECTION AS THE ORIGINAL BARRIER UPON COMPLETION OF THE WORK. REPAIR AND/OR REPLACEMENT OF THE BARRIER MUST BE COMPLETED UNLESS ADDITIONAL SAMPLING IS CONDUCTED THAT DEMONSTRATES THAT A BARRIER IN THE AREA IS NO LONGER NECESSARY IN ACCORDANCE WITH THE APPLICABLE PROVISIONS AND REQUIREMENTS OF PART 201 OF THE NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT.

E = NOTIFY FUTURE OWNERS TO THE POTENTIAL PRESENCE OF A LISTED HAZARDOUS WASTE BENEATH WMU #10.

* = EXTENT OF RESTRICTION SHOWN IN CORRESPONDING APPENDIX.

0 250' 500'
APPROXIMATE SCALE IN FEET

NOTE:

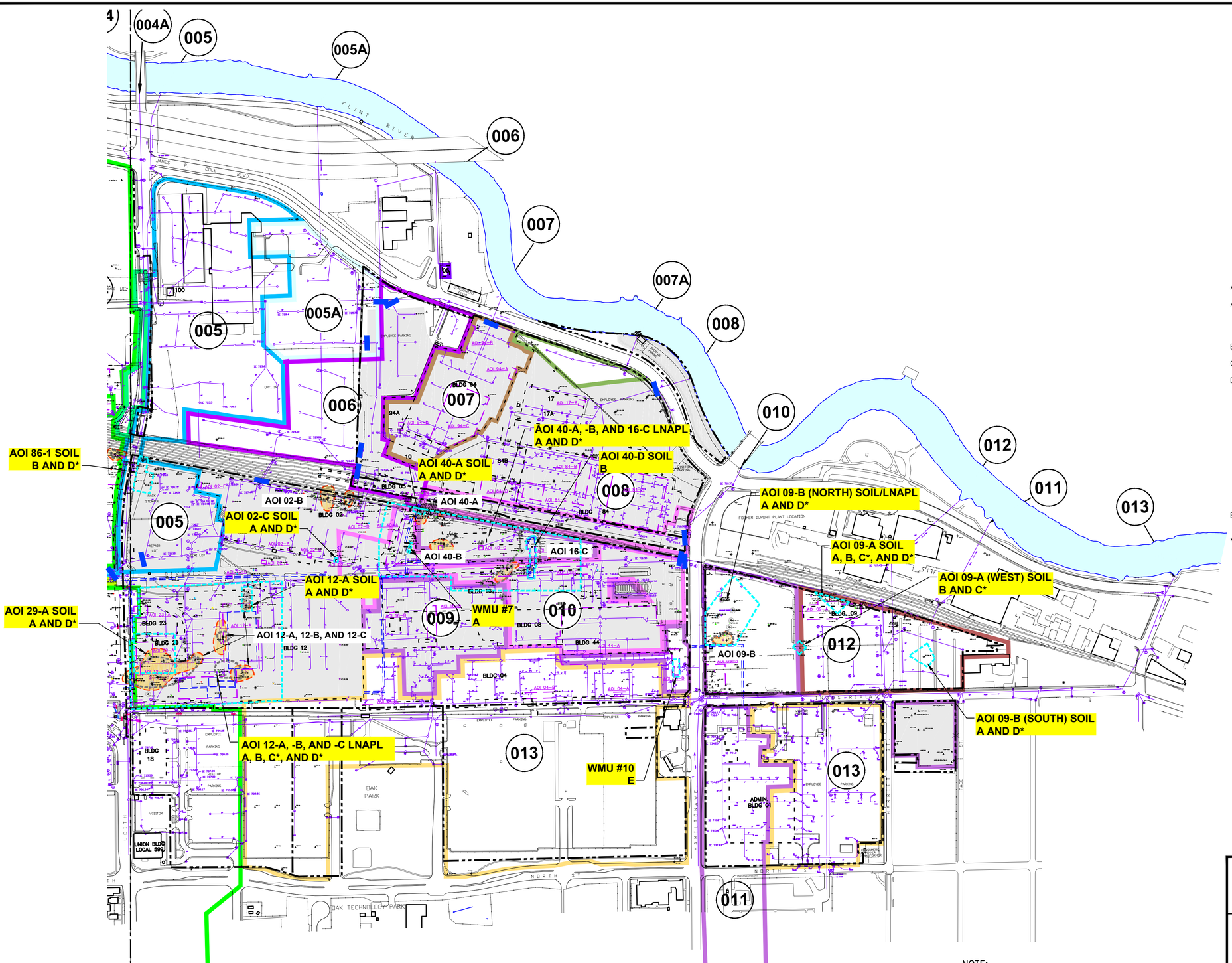
1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
REMEDY RECOMMENDATION REPORT

NORTHEND - INSTITUTIONAL CONTROLS

ARCADIS

FIGURE
10



LEGEND:

- RACER PROPERTY BOUNDARY
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- AREAS WITH NO DIRECT DRAINAGE TO THE STORM SEWER
- STORM SEWER
- STORM SEWER BULKHEAD LOCATION
- 001 OUTFALL DRAINAGE AREA AND NUMBER
- APPROXIMATE EXTENT COVERED BY AOI SPECIFIC RESTRICTIONS

AOI SPECIFIC INSTITUTIONAL CONTROL LEGEND:

A = PROHIBIT ANY ACTIVITY THAT COULD CREATE A PREFERENTIAL PATHWAY FOR MIGRATION, EXACERBATE EXISTING SITE CONDITIONS, OR AFFECT THE INTEGRITY, EFFECTIVENESS, AND/OR OPERATION OF ANY CORRECTIVE MEASURE INCLUDING STORM SEWER BULKHEADS.

B = NOTIFY FUTURE OWNERS OF THE PRESENCE OF PCBs.

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D* = PROHIBIT ANY EXCAVATION OR OTHER INTRUSIVE ACTIVITY THAT COULD AFFECT THE INTEGRITY OF THE SURFACE COVER THAT IS PRESENT TO PREVENT DIRECT CONTACT WITH CONTAMINATED MATERIAL, EXCEPT WITH USING APPROPRIATE HEALTH AND SAFETY MEASURES, DURING SHORT–TERM CONSTRUCTION OR REPAIR PROJECTS, OR FOR PURPOSES OF FURTHER TREATING OR REMEDIATING THE SUBJECT CONTAMINATION. ANY EXCAVATION OR OTHER INTRUSIVE ACTIVITY, INCLUDING REMOVING, ALTERING, OR DISTURBING THE SURFACE COVER, THAT COULD AFFECT THE INTEGRITY OF THE BARRIER, MUST BE REPLACED WITH A COVER THAT PROVIDES AT LEAST AN EQUIVALENT DEGREE OF PROTECTION AS THE ORIGINAL BARRIER UPON COMPLETION OF THE WORK. REPAIR AND/OR REPLACEMENT OF THE BARRIER MUST BE COMPLETED UNLESS ADDITIONAL SAMPLING IS CONDUCTED THAT DEMONSTRATES THAT A BARRIER IN THE AREA IS NO LONGER NECESSARY IN ACCORDANCE WITH THE APPLICABLE PROVISIONS AND REQUIREMENTS OF PART 201 OF THE NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT.

E = NOTIFY FUTURE OWNERS TO THE POTENTIAL PRESENCE OF A LISTED HAZARDOUS WASTE BENEATH WMU #10.

* = EXTENT OF RESTRICTION SHOWN IN CORRESPONDING APPENDIX.

0 250' 500'
APPROXIMATE SCALE IN FEET

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
REMEDY RECOMMENDATION REPORT

SOUTHEND - INSTITUTIONAL CONTROL

ARCADIS

FIGURE
11

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
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IMAGES: PROJECTNAME: ----

Appendix A

AOI 86-1 Fuel Oil Area
Remedy Recommendation Memo

ARCADIS of Michigan, LLC
28550 Cabot Drive
Suite 500
Novi
Michigan 48377
Tel 248 994 2240
Fax 248 994 2241

MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER
Chris Peters, ARCADIS
Steve Gaito, ARCADIS

From:
Micki M. Maki
Victoria Stacey

Date:
August 29, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
Priority #1 - AOI 86-1 Fuel Oil LNAPL Area
Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

As part of the remedy evaluation process each of the Site's 17 light non-aqueous phase liquid (LNAPL) Areas were prioritized based on risk. The area of interest (AOI) 86-1 Fuel Oil LNAPL Area (AOI 86-1 LNAPL Area) is ranked as Priority #1 with a total potential risk score of 17 (**Table 5 of the main report**). A conceptual site model cross-section is attached (**Figure A-1)** that provides an overview of the AOI 86-1 LNAPL Area impacts.

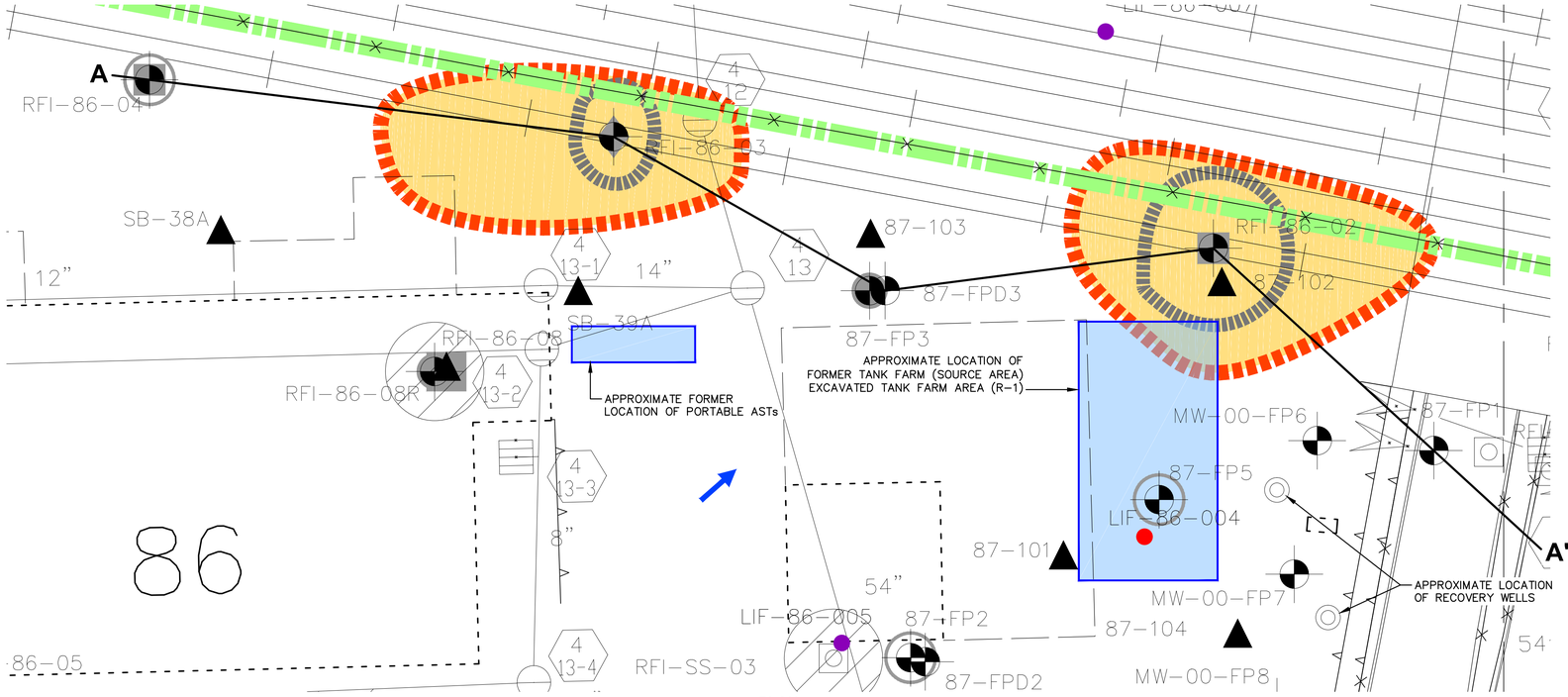
Historical IMs completed at the AOI 86-1 LNAPL Area include the tank farm removal, recovery wells, P-traps, and an LNAPL bailing program. The partial and effective removal of product completed in this area is considered a component of the AOI 86-1 remedy.

The compositional and saturation concerns identified for the AOI 86-1 LNAPL Area were evaluated in the LNAPL decision tree (**Attachment 2**) and are summarized below:

- There are exceedances of groundwater/surface water interface (GSI) and GSI protection criteria of select volatile organic compounds (VOCs) and metals in groundwater and soil samples.
- There are potential groundwater migration pathways to the Outfall 004 and 005 storm sewers.
- LNAPL is infiltrating the Outfall 004 storm sewer.

- Theoretically, there is a potential unacceptable vapor phase exposure risk associated with methane for future redevelopment scenarios due to the biodegradation of LNAPL generating methane; however, this will be addressed by the proposed institutional controls.
- There is a potential unacceptable vapor phase exposure risk associated with impacted soil however, this will be addressed by the proposed institutional controls and additional sampling and evaluation.
- No feasible options exist to mitigate unacceptable risk through compositional change.
- The LNAPL contains low levels of polychlorinated biphenyls (PCBs) (up to 4.6 parts per million [ppm]) and chromium at concentrations that are potentially characteristically hazardous.
- The LNAPL is not migrating; however, it is mobile and infiltrating the Outfall 004 storm sewer.
- Compositional concerns associated with LNAPL infiltration and GSI can be addressed through engineering and institutional controls.

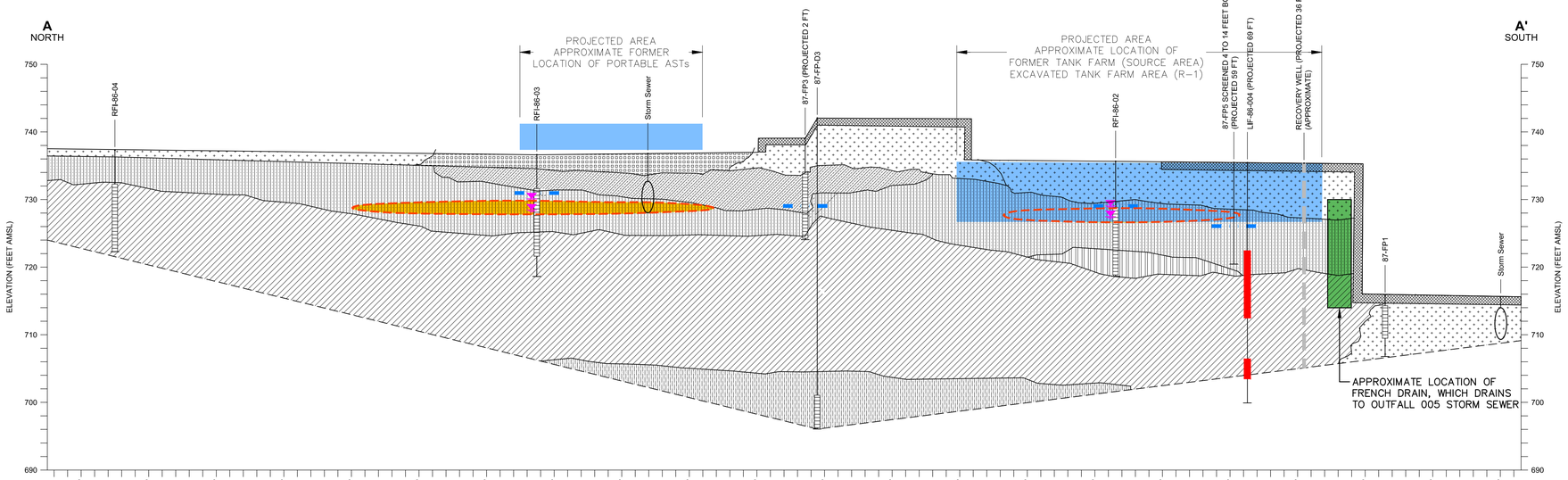
Based on the current understanding of conceptual site model risks, the remedies recommended to address the mobility, volatilization, GSI and PCB concerns associated with the AOI 86-1 LNAPL Area are to eliminate the Outfall 004 pathway, designate portions of the AOI 86-1 area as low occupancy, and establish institutional controls.



PLAN

0 20' 40'

GRAPHIC SCALE

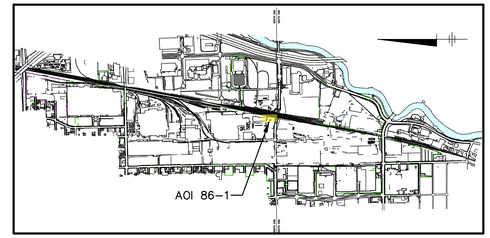


0 20' 40'

HORIZONTAL SCALE IN FEET

0 10' 20'

VERTICAL SCALE IN FEET



SITE MAP

0 2000' 4000'

SCALE IN FEET

AOI 86-1 FUEL OIL AREA PRIORITY #1

KEY LNAPL COMPOSITION AND SATURATION CONCERNS

1) LNAPL AND IMPACTED GROUNDWATER INFILTRATION TO THE OUTFALL 004 STORM SEWER
2) IMPACTED GROUNDWATER POTENTIALLY OFF SITE
3) SOIL VOLATILIZATION TO INDOOR AIR CONCERN
4) POTENTIAL VOLATILIZATION TO INDOOR AIR CONCERN FOR FUTURE STRUCTURES

COMPLETED INTERIM MEASURES AND RECOMMENDED REMEDIES

- R-1) TANK FARM (SOURCE AREA) EXCAVATED (IM COMPLETED)
- R-2) TWO RECOVERY WELLS ~5 YEARS OF LNAPL REMOVAL (IM COMPLETED)
- R-3) LNAPL BAILING AND MONITORING ~4 YEARS (IM COMPLETED)
- R-4) OUTFALL 004 INFILTRATION PATHWAY ELIMINATION
- R-5) 004 RECOVERY TRENCH MONITORING
- R-6) INSTITUTIONAL CONTROLS

NOTES:

1. BASE MAP INFORMATION FROM SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.
2. BASED ON INFORMATION AVAILABLE AS OF 03.19.2014.
3. FILL MATERIAL CONSISTS PRIMERIALY OF SILTY SAND.

RACER TRUST
BUICK CITY, FLINT, MICHIGAN

AOI 86-1 CONCEPTUAL SITE MODEL CROSS SECTION A-A'

ARCADIS

FIGURE
A-1

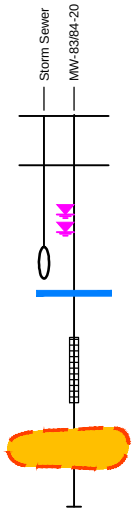
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G:\ENV\CADISYRACUSE\ACTIB0064410\2014I00206\Xsections\64410V01.DWG LAYOUT: A-1 SAVED: 9/3/2014 4:48 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---
IMAGES: PROJECTNAME: ---

LEGEND

- PROPERTY BOUNDARY
- HISTORICAL LNAPL EXTENT
- CURRENT LNAPL EXTENT
- STORM SEWER
- ABANDONED STORM SEWER LATERAL
- APPROXIMATE LOCATION OF RECOVERY TRENCH
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- A1 — A1' LINE OF SECTION
- RFI MONITORING WELL LOCATION
- MONITORING WELL LOCATION
- RECOVERY WELL (NAPL) LOCATION
- PIEZOMETER LOCATION
- SOIL BORING LOCATION
- DECOMMISSIONED WELL LOCATION
- EVIDENCE OF PRODUCT OBSERVED IN SOIL

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

- <5
- 5–10
- 10–100
- 100–200
- >200
- HAND AUGER REFUSAL (TOP 5')
- GROUNDWATER SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- GROUNDWATER SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- SOIL SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES DO NOT EXCEED APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES EXCEED ONE OR MORE APPLICABLE CRITERIA



- WELL/BORING ID
- EXISTING GRADE
- LITHOLOGICAL CONTACT (DASHED WHERE INFERRED)
- NAPL LEVEL (HISTORIC HIGH AND LOW LEVELS)
- WATER TABLE
- WELL SCREEN
- APPROXIMATE EXTENT OF LNAPL
- WELL/BORING BOTTOM
- ASPHALT
- CONCRETE
- CLAY
- FILL
- GRAVEL
- INTERBEDDED SAND AND CLAY
- INTERBEDDED SANDS AND SILTS
- INTERBEDDED SILT AND CLAY
- SAND
- SILT
- SILTY SAND

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FLINT, MICHIGAN

CROSS SECTION LEGEND

ARCADIS

FIGURE
A-2

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
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XREFS: IMAGES: PROJECTNAME: ---
Xr64410X3Bsp
Xr64410XDrainage
Xr64410X01
Xr64410XLIFsp2
Xr64410X01
Xr64410XAOI
Xr64410XLNAPL

Attachment 1

LNAPL Conceptual Site Model

Priority #1 - AOI 86-1 Fuel Oil LNAPL Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 1 - Conceptual Site Model

This attachment presents a conceptual site model for the area of interest (AOI) 86-1 Fuel Oil light non-aqueous phase liquid (LNAPL) Area (AOI 86-1 LNAPL Area), which is located at the Buick City Site (Site) located in Flint, Michigan (**Figure A1-1**).

Please note that soil impacts were identified south of Leith Street. These impacts are not associated with the AOI 86-1 LNAPL Area and are address separately in the AOI 86-1 Soil memo presented in **Appendix R.**

1. Background

The AOI 86-1 LNAPL Area is located at the Northend of the Site just north of Leith Street along the property boundary with CSX (**Figure A1-2**) and is associated with a historic release from a tank farm located south of Buildings 86/86A and Building 87 and east of Building 15. The tank farm consisted of five 12,000-gallon underground storage tanks (USTs) that were installed in 1936 and in use until they were removed in 1977. At the time of removal, all five tanks were noted to be empty andrusted out. Some soils were reportedly excavated and disposed of along with the tanks. In 1991, seven soil borings were completed in the area of the former tank farm and soil samples were collected and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), lead and polynuclear aromatics (PNAs). The laboratory analyses suggested that a release of hydrocarbons had occurred.

In 1996, an oily sheen was discovered on the water in a nearby catch basin connecting to storm sewer Outfall 005. Further investigations were conducted in the vicinity of the former UST area. The results of the investigations indicated that a release of product had affected areas east, south, and west of the former UST area. However, LNAPL has only been detected in two monitoring wells (RFI-86-02 and RFI-86-03), shown on **Figure A1-2.**

Also, please note that historically LNAPL was also detected at the adjacent AOI 85-1 (Elevator Pit and Engine Test Area). LNAPL was detected and sampled during installation of temporary well RFI-85-02. A permanent well (RFI-85-02R) was subsequently installed at this location. However, LNAPL has not been observed in RFI-85-02R during subsequent groundwater sampling events. In addition, no impacts were identified in LIF boring LIF-86-003, which was co-located with RFI-85-02R to investigate the extent of

impacts. As no impacts have been identified at RFI-85-02R, there is no remedy recommended for this area; however, the data are included as part of the conceptual site model for the AOI 86-1 area.

For additional information regarding the tank farm and historic investigations please refer to the Current Conditions Report for the Northend of the Site which is presented in **Appendix Y**.

2. Former Interim Measures

2.1 Tank Farm Removal

The tank farm was removed in 1977. At the time of the removal, some soils were reportedly excavated and disposed of along with the tanks.

2.2 Recovery Wells

In the 1990s, two product recovery wells were installed to eliminate the migration of product from the AOI 86-1 LNAPL area into the catch basin connecting to Storm Sewer Outfall 005. The wells were installed to a depth of approximately 36 feet bgs adjacent to the Leith Street overpass retaining wall. Recovered product was collected in an oil/water separator and discharged to the Site's wastewater treatment plant. According to Site reports, the recovery system was successful in recovering free-phase LNAPL in this area and operation of the system was discontinued in 2001.

2.3 P-traps at Leith Street

In 2004, sheens were identified in the Outfall 005 storm sewer system. Inspection revealed that the likely source of the sheens was infiltration into the system near the two French drain manholes located on the north side of the Leith Street underpass (**Figure A-1**). P-traps were installed in both of the French drain manholes to prevent the sheen from discharging to Outfall 005. Quarterly inspections of the P-traps have been completed since 2010 and no LNAPL accumulation has been identified.

2.4 LNAPL Monitoring and Bailing Program

Following the shutdown of the product recovery wells discussed in Section 2.2, ten monitoring wells (87-FP1, 87-FP2, 87-FPD2, 87-FP3, 87-FPD3, 87-FP4, 87-FP5, MW-FP6, MW-FP7, and MW-FP8) located at AOI 86-1 were monitored as part of the Site-wide LNAPL monitoring program. These wells were gauged three times in 2001 and no product was measured at any of the wells.

From 2003 to 2005, seven monitoring wells (87-FP1, MW-00-FP6, RFI-85-02/2R, RFI-86-02, RFI-86-03, RFI-86-06D, and RFI-86-06S) located at AOI 86-1 were monitored as part of a Site-wide Quarterly LNAPL Monitoring Program. During the three year program, a total of 0.87 gallons of LNAPL was removed from

the AOI 86-1 area. Data from the 2003 to 2005 LNAPL bailing program are presented in **Appendix X**.

3. AOI 86-1 Site Setting and Data Summary

This section provides a summary of the geology, hydrogeology, analytical data, LNAPL characteristics, and extent of impacts for the AOI 86-1 LNAPL Area.

Figure 2 presents the locations of the existing and abandoned monitoring wells and soil borings in the AOI 86-1 Area.

3.1 AOI 86-1 Geology and Hydrogeology

- *Geology:* The AOI 86-1 boring logs indicate that the soils are primarily fine sand and silty sand to approximately 15 feet below ground surface (bgs) and are underlain by silt/clay. The logs for monitoring wells 87-FP5, RFI-86-02 and RFI-86-03 also show visual evidence of LNAPL impacts and/or positive oil shake tests ranging from 3 to 18 feet bgs (maximum boring depth in the LNAPL area). The logs for monitoring wells 87-FP2, 87-FPD2, 87-FP3, 87-FPD3, 87-FP4, and RFI-85-02/02R did not indicate any visual evidence of impact and exhibited slightly elevated PID readings.

- *Groundwater/LNAPL Levels:* Depth to groundwater in this area ranges from 6 to 11 feet bgs. Since the completion of the Quarterly LNAPL Monitoring Program in 2005, LNAPL has been detected intermittently at monitoring wells RFI-86-02 and RFI-86-03. The greatest thicknesses of LNAPL were detected in 2007 with 3.54 feet measured at RFI-86-02 and 0.48 feet measured at RFI-86-03. RFI-86-03 is gauged during the annual groundwater sampling event and in recent years has detected little (0.03 feet) to no product. In March 2013, 0.01 feet of product was measured at RFI-86-02 at a depth of 8.06 ft bgs and no product was measured at RFI-86-03. Based on a review of historic groundwater elevations at this AOI and the observed flow direction, groundwater is infiltrating both the Outfall 004 and 005 storm sewers.

  Groundwater flow in this portion of the Site is generally to the southeast. Groundwater level data are presented in **Appendix X.**

3.2 Groundwater and Soil Analytical Data

Analytical data were compared to applicable Michigan Part 201 non-residential criteria.

3.2.1 Groundwater Analytical Data

Six monitoring wells in the vicinity of the AOI 86-1 LNAPL Area have been sampled during Site investigations. LNAPL constituents from the AOI 86-1 LNAPL Area were detected

above criteria in groundwater. This dissolved phase plume exceeds groundwater/surface water interface (GSI) criteria for chloroethane (5,200-14,000/1,100 ug/L), naphthalene (34/11 ug/L), trichloroethene (960-2,000/200 ug/L), vinyl chloride (49-430/13 ug/L), arsenic (14-47/10 ug/L) and silver (0.74/0.2 ug/L). The dissolved phase plume continues offsite to CSX property (which bisects the Site) as shown on **Figure A1-2**.

3.2.2 Soil VOC, SVOC, and Metals Analytical Data

Soil samples were collected from five locations in the immediate vicinity of the AOI 86-1 LNAPL area during Site investigations. The following soil impacts were detected.

- Trichloroethene (TCE) was detected at concentrations exceeding Non-residential Soil Volatilization to Indoor Air (NSVIA) criteria in samples collected from the RFI-86-08 (3.3-5.5/1.9 mg/kg) soil boring. These soil samples are located in the release area, but are not within the defined extents of the AOI 86-1 LNAPL Area.
- Soil samples exceed Groundwater/ Surface Water Interface Protection (GSIP) criteria for 2-methylnapthalene (7.35-7.41/4.2 mg/kg), naphthalene (1.79-1.85/0.73 mg/kg), tetrachloroethene (2.2/4 mg/kg), trichloroethylene (3.3-5.5/4 mg/kg), arsenic (8.4-34/4.6 mg/kg), cobalt (8.4-12/2 mg/kg), copper (160-460/130 mg/kg), manganese (820/98 mg/kg), mercury (0.383/0.05 mg/kg), nickel (150/120 mg/kg), selenium (0.65-0.66/0.4 mg/kg), and/or zinc (370/280mg/kg).

3.2.3 GSI Evaluation

As discussed in further detail in **Appendix BB**, GSI exceedances in the Site storm sewers are being evaluated by the ongoing NPDES Plus Monitoring Program (NPMP). AOI 86-1 is primarily serviced by the Outfall 004 storm sewer, which will be bulkheaded as part of the recommended remedies, eliminating this pathway. Outfall 005 also services the southern portion of the AOI 86-1 area. As discussed in Appendix BB additional sampling is being conducted at Outfall 005 to determine whether impacts from the AOI 86-1 area are infiltrating the Outfall 005 storm sewer. Also, data evaluations completed to date suggest that the majority of the metals impacts at the Site can be addressed a mixing zone based remedy; however, additional data collection and evaluation is needed.

3.2.4 Soil PCB Analytical Data

Polychlorinated biphenyls (PCBs) were detected in one sample at a concentration less than 1 part per million (ppm).

3.2.5 Vapor Intrusion Evaluation

Due to the presence of shallow groundwater and LNAPL (approximately 6 to 11 feet below ground surface) at AOI 86-1, groundwater data were also compared to the applicable Non-Residential Screening Values For the Vapor Intrusion Pathway presented in the *Michigan Department of Environmental Quality (MDEQ) Guidance Document for the Vapor Intrusion Pathway* (further discussed in Section 3.4 of the Report). Groundwater data from three on Site locations (87-FP2, 87-FP3, and RFI-85-06) exceed applicable volatilization to indoor air screening levels.

As there are no structures at the Site the MDEQ Part 201 criteria are appropriate for comparison of soil data. As discussed in Section 3.2.2, TCE was detected at concentrations exceeding NSVIA criteria in soil samples collected from the RFI-86-08.

3.3 LNAPL Characteristics

- *LNAPL Analytical Data:* LNAPL present at AOI 86-1 consists primarily of fuel oil with viscosity that ranges from 18 to 60 centipoise (cp), an interfacial tension ranging from 16 to 23 dynes/centimeter, and specific gravity ranging from 0.87 to 0.90. The LNAPL samples collected also exhibited PCBs at concentrations ranging from 0.56 to 4.6 ppm. In addition, concentrations of chromium exceed TCLP criteria; however, TCLP analysis has not been conducted.

  For reference, the viscosity (at 100 degrees Fahrenheit) of olive oil is 43.2 cp and honey is 73.6 cp (Ingersoll-Rand, 1981). Applicable LNAPL analytical data are presented in **Appendix X.**

- *LIF Data:* Nine laser-induced fluorescence (LIF) borings were completed in the vicinity of the AOI 86-1 LNAPL Area. The LIF response at the AOI 86-1 Area is consistent with the known LNAPL type, fuel oil. One boring (LIF-86-004) detected impacts (greater than 5% RE) from 13.5 to 23.1 feet bgs and 28.9 to 34.5 feet bgs. The highest responses (exceeding 100% RE) are from 13.5 to 18 feet bgs and 28.9 to 34.5 ft bgs. The impacts from 18 to 23.1 feet bgs are below 50% RE.

  LFI-86-004 is located adjacent to monitoring well 87-FP5, which is screened from 4 to 14 feet bgs and no LNAPL has been detected in this well. Historically, depth to groundwater at 87-FP5 has been 10 to 12 feet bgs. **Figure A1-2** presents the results of the LIF investigation and the extent of impacts associated with the AOI 86-1 LNAPL Area.

- *Transmissivity:* Transmissivity testing has not been completed at the AOI 86-1 LNAPL Area. There is insufficient LNAPL present to conduct transmissivity testing at this time.

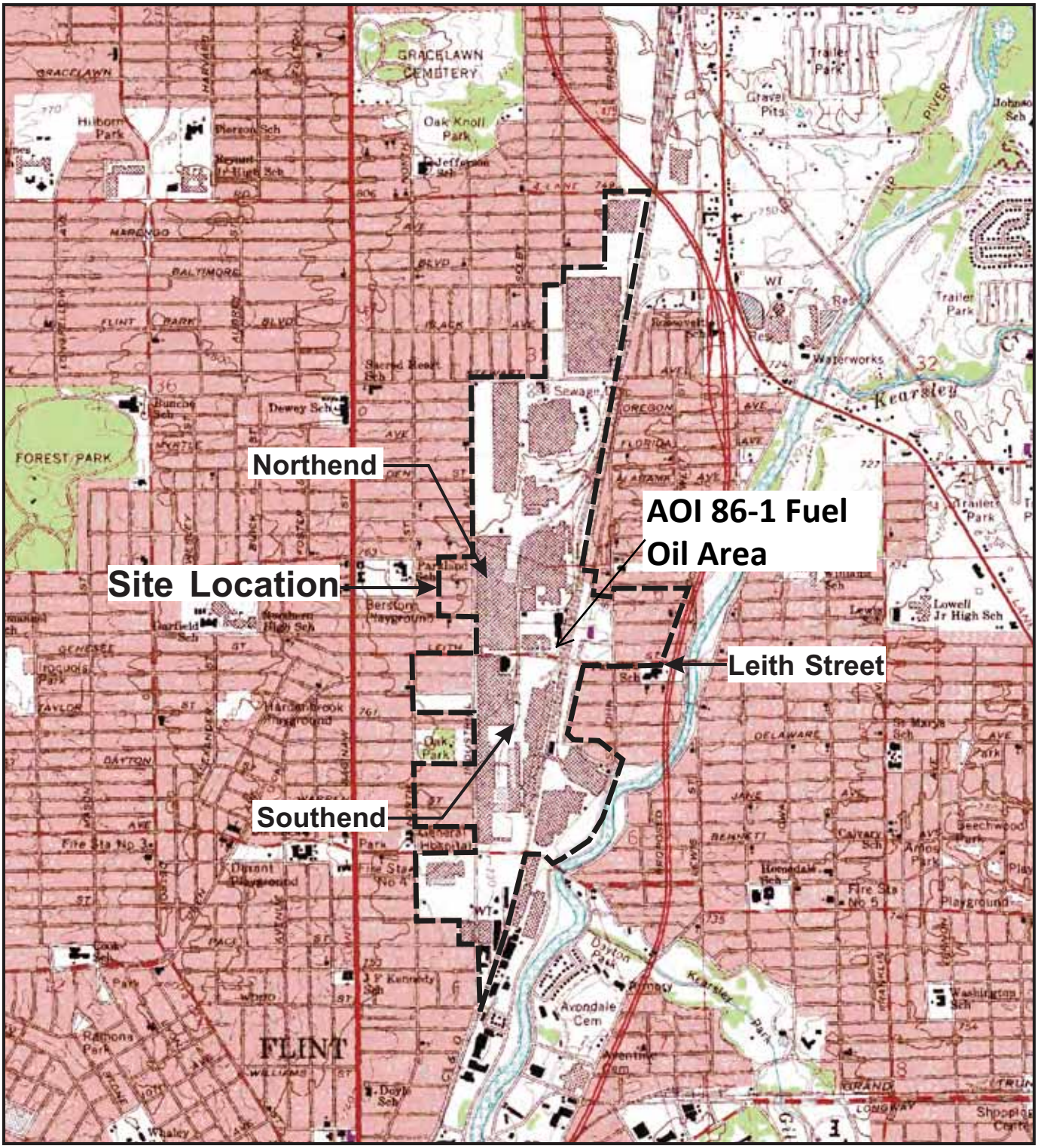
- *Natural Source Zone Depletion (NSZD):* NSZD sampling was completed to establish ongoing natural attenuation rates of LNAPL at the AOI 86-1 LNAPL Area as a baseline for comparison to active LNAPL recovery technologies. Two carbon traps were installed adjacent to monitoring wells RFI-86-02 and RFI-86-03, in order to establish ongoing natural attenuation rates of LNAPL in this area. The results show that LNAPL near monitoring well RFI-86-02 and RFI-86-03 is being depleted at rates of 516 gallons per acre per year and 397 gallons per acre per year, respectively.

3.4 Extent of LNAPL

During the Remediation Cost Estimate Summary (RCES) preparation, the AOI 86-1 LNAPL area was calculated based on historical data. The footprint of the LNAPL area containing approximately 0.5 ft or greater of LNAPL was estimated to be approximately 2,300 square feet. However, during the past five annual monitoring events greater than 0.5 of product has only been detected in one well (RFI-86-02) once. Based on the LIF investigation, one boring (LIF-86-004) detected impacts from 13.5 to 23.1 feet bgs and 28.9 to 34.5 feet bgs. The highest responses are from 13.5 to 18 feet bgs and 28.9 to 34.5 feet bgs. Soil boring logs indicate positive oil in soil shake tests from depths of 3 feet bgs to 18 feet bgs.

ARCADIS

Figures



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quad., Flint North, Mich. (1969, Photorevised 1975).

2000' 0 2000'

Approximate Scale: 1" = 2000'

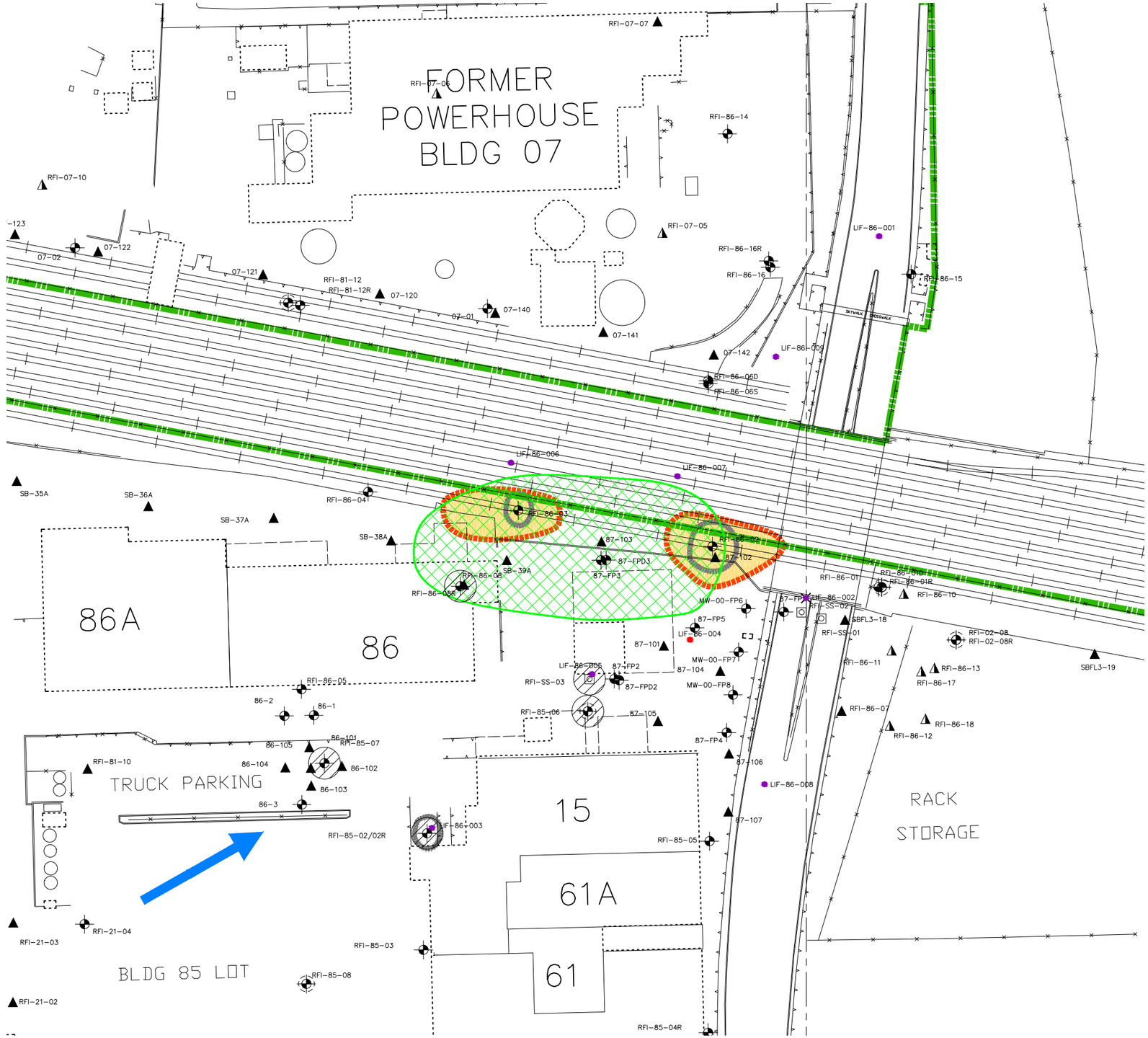
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BUICK CITY, FLINT, MICHIGAN

SITE LOCATION MAP

ARCADIS

FIGURE
A1-1

03/12/2012 SYRACUSE, NY-ENV/CAD-141-DJHOWES
B0064410/2012/01202/CDR/64410N01.CDR



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- DEMOLISHED BUILDING
- ESTIMATED AREA WHERE INORGANICS EXCEED MICHIGAN PART 201 GSI CRITERIA
- GENERAL GROUNDWATER FLOW DIRECTION

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200
- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 40' 80'
APPROXIMATE SCALE IN FEET

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AOI 86-1
INVESTIGATION LOCATIONS AND LNAPL EXTENTS

ARCADIS

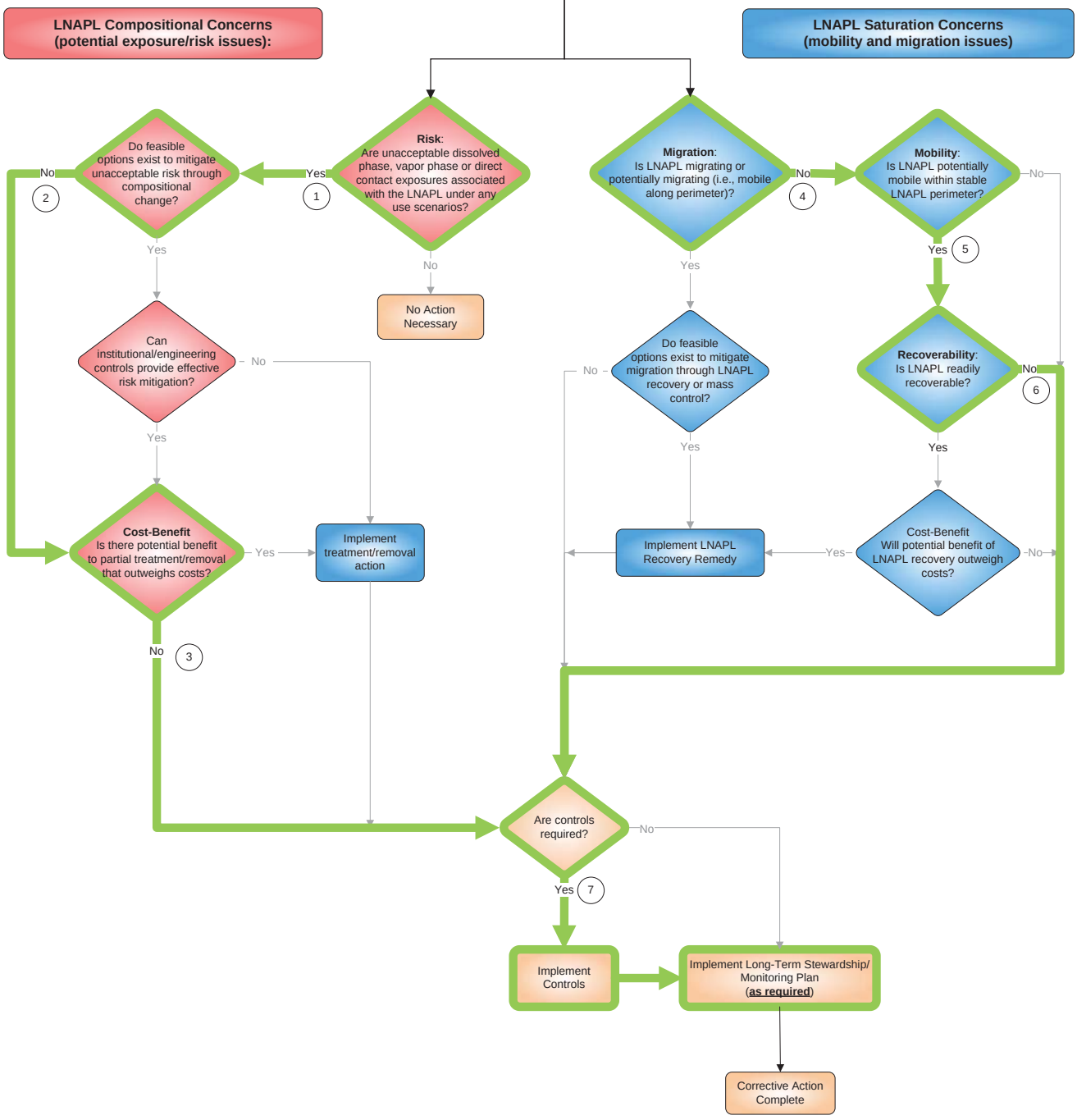
FIGURE
A1-2

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IMAGES: PROJECTNAME: ---

Attachment 2

LNAPL Remedial Decision Tree

Attachment 1 LNAPL Remedial Decision Tree Priority #1 – AOI 86-1 (Fuel Oil Area)



NOTES

(#) NOTES: See Page A2-2

Please see Appendix W for the LNAPL Remedial Decision Tree Template that lists additional sources of pertinent information used in the evaluation of the decision points (i.e. tables).

Attachment 2 Notes

Priority #1 - AOI 86-1 Fuel Oil LNAPL Area

Background: The area of interest (AOI) 86-1light non-aqueous phase liquid (LNAPL) area is located at the Northend of the Site just north of Leith Street along the property boundary with CSX and is associated with a historic release from a tank farm located south of Buildings 86/86A and Building 87 and east of Building 15. The tank farm consisted of five 12,000-gallon underground storage tanks (USTs) that were installed in 1936 and in use until they were removed in 1977.

Geology and Hydrogeology: The soils at AOI 86-1 consist of primarily sand and silty sand to a depth of approximately 15 feet bgs that is underlain by clay/silt. Depth to groundwater in this area ranges from 6 to 11 feet bgs. Groundwater flow in this portion of the Site is generally to the southeast.

LNAPL Characteristics: LIF data indicate impacts at the AOI 86-1 LNAPL Area from 13.5 to 23.1 feet bgs and 28.9 to 34.5 ft bgs and soil boring logs noted impacts from 3 to 18 feet bgs. The AOI 86-1 LNAPL area is defined by two monitoring wells, RFI-86-02 and FI-86-03, both of which are gauged during annual monitoring events. LNAPL has only been detected at RFI-86-02 at a thickness greater than 0.1 feet once in the last 10 years. Little (0.05 feet) to no product has been detected at RFI-86-03 in the past ten years. In March 2013, 0.01 feet of product was measured at RFI-86-02 at a depth of 8.06 ft bgs and no product was measured at RFI-86-03. Laboratory analysis indicates that the LNAPL viscosity ranges from 18 to 60 centipoise (cp), interfacial tension ranging from 16 to 23 dynes/centimeter, and specific gravity ranging from 0.87 to 0.90. The LNAPL samples collected also exhibited PCBs at concentrations ranging from 0.56 to 4.6 parts per million (ppm) and concentrations of chromium exceed TCLP criteria; however, TCLP analysis has not been conducted.

1) *Are unacceptable dissolved phase, vapor phase, or direct contact exposures associated with the LNAPL under any use scenarios?*

   YES – The following potential risk/exposure concerns are associated with the AOI 86-1 LNAPL area:

   - Groundwater/surface water interface (GSI): Multiple potential GSI issues were identified at AOI 86-1. Groundwater and soil samples collected from AOI 86-1 detected select VOCs and metals at concentrations exceeding GSI or GSI Protection criteria and the dissolved phase plume may continue onto the adjacent property owned by CSX.

     AOI 86-1 is serviced by the Outfall 004 and 005 storm sewers which are the only potentially complete GSI pathways in this area. In 2010 and 2011, samples were collected from the onsite compliance point for the Outfall 004 storm sewer, which is located approximately 800 feet downstream of AOI 86-1, and submitted for laboratory analysis. The Outfall 004 storm sewer samples exceeded GSI criteria for select metals; however, the AOI 86-1 LNAPL area is not the sole source of impact along the Outfall 004 storm sewer and therefore may not be the source of these exceedances. In addition, the GSI compliance point is at the discharge point to the River. As discussed in **Appendix BB** additional sampling of Outfall 005 is planned to determine whether impacts from AOI 86-1 are infiltrating the storm sewer.

     In addition, LNAPL from the AOI 86-1 LNAPL area is infiltrating the Outfall 004 storm sewer.

   - Soil Volatilization to Indoor Air: The concentrations of trichloroethene detected in soil at the AOI 86-1 LNAPL Area exceed the non-residential volatilization to indoor air criteria. Institutional controls will be implemented to control this risk/exposure scenario.

   - Potential Groundwater Volatilization to Indoor Air Concern at the Property Boundary: Groundwater data from three locations (87-FP2, 87-FP3, and RFI-85-06) exceed applicable vapor intrusion screening levels. On Site concerns will be addressed by institutional controls. Additional evaluation will be completed for off Site receptors in accordance with the MDEQ's *Guidance Document for the Vapor Intrusion Pathway.* However, as two of the locations (87-FP2 and RFI-85-06) are more than 100 feet from the property boundary and the adjacent CSX property consists of rail road tracks, which are highly unlikely to be replaced by an occupiable structure in the foreseeable future, it is likely that institutional controls will also be recommended as the off Site remedy.

   - Potential Volatilization to Indoor Air for a Future Structure*:* Theoretically, there is a potential unacceptable vapor phase exposure risk associated with methane future redevelopment scenarios; however, this will be addressed by the proposed institutional controls.

2) *Do feasible options exist to mitigate unacceptable risk through compositional change?*

   NO – The following is a general discussion regarding the feasibility of various compositional change remediation strategies for the AOI 86-1 area:

   - LNAPL constituents in fuel oil at AOI 86-1 have low volatility rendering remedial technologies that rely on vapor-phase partitioning infeasible on a technical basis.

   - Targeted in-situ soil mixing/land farming would use biological additives to address the petroleum constituents; however, the PCBs would remain and could become mobilized. In addition, due to the proximity of the AOI 86-1

LNAPL area to the Site storm sewers there is a potential for the additives to enter the sewer and be discharged to the Flint River.

- Based on the results of pilot testing completed at the AOI 40-A, -B, and 16-C Fuel Oil LNAPL areas, which have a similar LNAPL type and geology to the AOI 86-1 LNAPL Area, enhanced dissolution and recovery via surfactant or hot water flushing may enhance LNAPL recovery. However, due to the proximity of the AOI 86-1 LNAPL area to the Site storm sewers there is a potential for surfactant and mobilized PCB containing LNAPL to enter the sewer and be discharged to the Flint River. Also, note that the AOI 40 LNAPL has a lower viscosity (1 to 5 centipoise) than the AOI 86-1 LNAPL (18 to 60 centipoise)
- In situ thermal remediation may be technically feasible for this area; however, it is not a viable option based on the presence of PCBs in the LNAPL and nearby City sewers.

3) *Is there a potential benefit to partial treatment/removal that outweighs costs?*

NO – Compositional concerns regarding LNAPL infiltration, GSI and volatilization impacts can be addressed through engineering and institutional controls. In addition, LNAPL has only been detected in one monitoring well in the AOI 86-1 area at a thickness greater than 0.1 feet once in the last 10 years.

4) *Is LNAPL migrating or potentially migrating (i.e. mobile along the perimeter)?*

NO – While the LNAPL is mobile in the vicinity of the storm sewer, the LNAPL area appears to be stable. This finding is supported by the following lines of evidence:

- Well Gauging Data: Sentinel wells located downgradient of the AOI 86-1 LNAPL area have remained free of LNAPL since monitoring began approximately 10 years ago.
- Dissolved-phase Concentration Trends in Downgradient Monitoring Wells: The monitoring wells located downgradient of the of the dissolved phase plume have not detected constituents above criteria since monitoring began approximately 10 years ago.
- Age of LNAPL Release: The source of the AOI 86-1 LNAPL area is a former tank farm, which was removed in 1977 (no active LNAPL sources for at least 35 years). LNAPL bodies typically stabilize within 2 to 5 years after a release has been stopped (ITRC, 2012).

5) *Is LNAPL mobile within the stable LNAPL perimeter?*

YES – LNAPL from the AOI 86-1 area is infiltrating the Outfall 004 storm sewer. The proposed remedy to address LNAPL infiltration is the re-route of the Outfall 004 storm sewer into the Outfall 013 storm sewer coupled with bulkheading of the Outfall 004 storm sewer downgradient of where the LNAPL is infiltrating.

6) *Is LNAPL readily recoverable?*

NO – The results of historic interim measures (IM) indicate that in the past LNAPL has been recovered using recovery wells and by bailing (discussed further below). However, it is uncertain whether future LNAPL recovery is practical as minimal LNAPL is currently present at AOI 86-1.

- In the 1990's, two product recovery wells were installed to eliminate the migration of product from the AOI 86-1 LNAPL area into the catch basin connecting to Storm Sewer Outfall 005. The wells were installed to a depth of approximately 36 feet bgs adjacent to the Leith Street overpass retaining wall. Recovered product was collected in an oil/water separator and discharged to the Site's wastewater treatment plant. According to Site reports, the recovery system was successful in recovering free-phase LNAPL in this area and operation of the system was discontinued prior to 2002.
- Following the shutdown of the recovery wells in 2001, ten monitoring wells (87-FP1, 87-FP2, 87-FPD2, 87-FP3, 87-FPD3, 87-FP4, 87-FP5, MW-FP6, MW-FP7, and MW-FP8) located at AOI 86-1 were monitored as part of the Site-wide LNAPL monitoring program. These wells were gauged three times in 2001 and no product was measured at any of the wells.

From 2003 to 2005, seven monitoring wells (87-FP1, MW-00-FP6, RFI-85-02/2R, RFI-86-02, RFI-86-03, RFI-86-06D, and RFI-86-06S) located at AOI 86-1 were monitored as part of a Site-wide Quarterly LNAPL Monitoring Program. During the program, a total of 0.87 gallons of LNAPL was removed from monitoring wells RFI-86-02 and RFI-86-03.

7) *Are controls required?*

YES – In addition to the re-routing of the Outfall 004 storm sewer into the Outfall 013 sewer to eliminate pathway, the following AOI-specific institutional controls, in addition to the Site-wide institutional controls, are proposed for the AOI 86-1 area to limit future exposure:

Attachment 2 Notes

Priority #1 - AOI 86-1 Fuel Oil LNAPL Area

- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads, as shown on **Figure 5 of the main report**.
- Notify future owners of the presence of PCBs, and
- Restrict the area shown on **Figure A3-1** to low occupancy based on the presence of PCBs.

Attachment 3

761.61(c) Risk Based Cleanup and Disposal Request

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Priority #1 – AOI 86-1 Fuel Oil LNAPL Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 3 – 761.61(c) Risk Based Cleanup and Disposal Request

---

This attachment presents the information required to support a 761.71(c) determination for the area of interest (AOI) 86-1 light non-aqueous phase liquid (LNAPL) area.

1. Area Background and History

The AOI 86-1 LNAPL area is located at the Northend of the Site, south of the former Building 86/86A area and is likely associated with historic releases from a tank farm. The AOI 86-1 LNAPL area is currently defined by two monitoring wells at AOI 86-1 (RFI-86-02 and RFI-86-03).

2. Summary of SOPs and Investigation Results

AOI 86-1 has been previously investigated as part of the Site's RCRA Facility Investigation (RFI) activities. The RFI Work Plan presents the standard operating procedures, field sampling procedures, quality assurance/quality control procedures, etc. used during the investigation. The results of the investigations (including laboratory analytical reports) were presented in the RFI Phase I and RFI Phase II reports.

3. Nature of Contamination

At AOI 86-1, samples of LNAPL, soil, and groundwater have been analyzed for polychlorinated biphenyls (PCBs). Below is a brief summary of results.

- Four LNAPL samples were collected from three monitoring wells (RFI-85-02, RFI-86-02 and RFI-86-03). PCBs were detected in all four samples at concentrations of 0.56 ppm (RFI-86-02), 1.1 ppm (RFI-85-02), and 4.6 ppm (RFI-86-03). Please note that the LNAPL sample collected from RFI-85-02 was from a temporary well. A permanent well (RFI-85-02R) was subsequently installed at this location. However, LNAPL has not been observed in RFI-85-02R during subsequent groundwater sampling events.
- A total of 45 soil samples collected from the AOI 86-1 area were analyzed for PCBs. Seven of the soil samples detected PCBs; however, only one sample was at a concentration greater than 1 ppm. The soil sample collected from RFI-86-07 detected PCBs at a concentration of 3.5 ppm. RFI-86-07 is located on the south side of Leith Street and is not related to the AOI 86-1 LNAPL

area. Soil exceedances located on the south side of Leith Street will be addressed separately in **Appendix R**.

- Nineteen groundwater samples collected from wells in the AOI 86-1 Area were analyzed for PCBs. PCBs were detected in only one of the groundwater samples at a concentration of 0.00033 milligrams per liter (mg/L).

4. Extent of Impacts

At AOI 86-1, PCB impacts are associated with the LNAPL. **Figure A3-1** shows the approximate extent of the AOI 86-1 LNAPL area. As discussed above, LNAPL has historically been detected in three monitoring wells in the AOI 86-1 area and is currently detected in only one monitoring well. PCBs were detected in four LNAPL samples at a maximum concentration of 3.5 ppm. The average depth to LNAPL is approximately 8 feet bgs. The depth of LNAPL impact ranges from 3 to 35 feet bgs.

As noted above, no LNAPL has been detected at RFI-85-02R since its installation in 2001. In addition, no impacts were identified in LIF boring LIF-86-003, which was co-located with RFI-85-02R to investigate the extent of impacts.

5. Risk Based Procedure

PCB-containing LNAPL is located in the vicinity of RFI-86-03 and historically at RFI-85-02 at concentrations that exceed 1 ppm. The existing cover will remain in place at these locations and the area will be designated as low occupancy. At RFI-85-02, the surface cover consists of 1 foot of concrete and at RFI-86-03 the surface cover consists of approximately 1 foot of gravel. The depth to LNAPL/groundwater at RFI-85-02 is typically 10 to 11 feet bgs and the depth to LNAPL groundwater at RFI-86-03 is typically 6 to 7 feet bgs. The approximate areas proposed for low occupancy restrictions are presented on **Figure A3-1**; however, additional sampling will be completed to refine the extents of PCB impacts and determine whether the impacts actually extend off Site prior to implementing the restriction.

LNAPL and/or LNAPL-impacted soils removed during remediation activities completed at AOI 86-1 will be characterized for disposal using “as found” concentrations.

AOI-specific deed restrictions, in addition to the Site-wide institutional controls, placed on AOI 86-1 will include (but are not limited to):

- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads (as shown on **Figure 5 of the main report**),
- Notification to future owners of the presence of PCBs, and

- Restrict the area containing PCB-impacted LNAPL to low occupancy (as shown on **Figure A3-1**).

6. Evaluation of Alternatives

The following technologies were evaluated to address LNAPL at AOI 86-1:

- Targeted in-situ soil mixing/land farming would use biological additives to address the petroleum constituents; however, the PCBs would remain and could become mobilized. In addition, due to the proximity of the AOI 86-1 LNAPL area to the Site storm sewers, there is a potential for the additives to enter the sewer and be discharged to the Flint River.

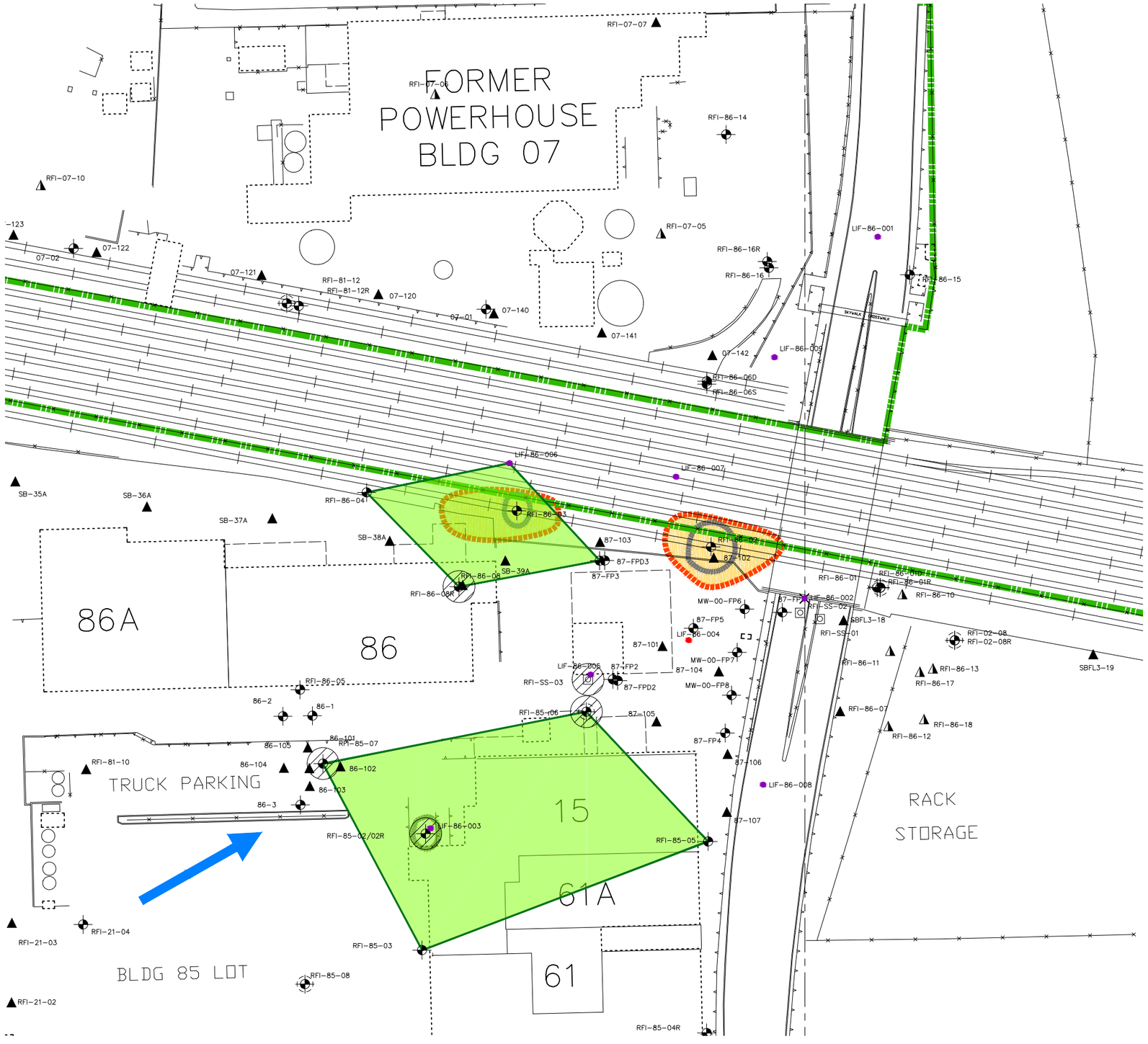
- Based on the results of pilot testing completed at the AOI 40-A, -B, and 16-C Fuel Oil LNAPL areas, which have a similar LNAPL type and geology as AOI 86-1, enhanced dissolution and recovery via surfactant or hot water flushing may enhance LNAPL recovery. However, due to the proximity of the AOI 86-1 LNAPL area to the Site storm sewers there is a potential for surfactant and mobilized PCB-containing LNAPL to enter the sewer and be discharged to the Flint River. Also, note that the AOI 40 LNAPL has a lower viscosity (1 to 5 centipoise) than the AOI 86-1 LNAPL (18 to 60 centipoise)

- In situ thermal remediation may be technically feasible for the area; however, it is not a viable option based on the presence of PCBs in the LNAPL.

- LNAPL constituents at AOI 86-1 have low volatility rendering remedial technologies that rely on vapor-phase partitioning infeasible on a technical basis.

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Figures



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- DEMOLISHED BUILDING
- PROPOSED AREA RESTRICTED TO LOW OCCUPANCY
- GENERAL GROUNDWATER FLOW DIRECTION

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200
- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 40' 80'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 86-1
PCB CONCENTRATIONS IN LNAPL AND EXTENT OF LOW OCCUPANCY RESTRICTIONS

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FIGURE
A3-1

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
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IMAGES: PROJECTNAME: ---

Attachment 4

Remedy Recommendation

Priority #1 - AOI 86-1 Fuel Oil LNAPL Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 4 – Recommended Remedy

This attachment presents the recommended remedies for the area of interest (AOI) 86-1 Fuel Oil Area (AOI 86-1 light non-aqueous phase liquid [LNAPL] Area).

1. Compositional and Saturation Concerns

The LNAPL Decision Tree Analysis presented in **Attachment 2** identified groundwater/surface water interface (GSI) and potential volatilization to indoor air as compositional concerns for AOI 86-1 and mobility as a saturation concern. GSI impacts to groundwater and infiltration to the Outfall 004 storm sewer are the basis for the mobility and GSI concerns. The volatilization to indoor air concern is due to two components: the biodegradation of LNAPL generating methane that could potentially result in indoor air quality concerns for future structures and trichloroethene at levels exceeding soil volatilization to indoor air criteria. In addition, the LNAPL from the AOI 86-1 area contains low concentrations of polychlorinated biphenyl (PCBs) which has also been identified as a concern.

2. Remedy Recommendation Rationale

The remedies recommended to address the compositional and saturation concerns associated with the AOI 86-1 LNAPL Area are engineering and institutional controls, which are discussed in detail in Section 3. The rationale for this selection is detailed below:

- Soil and groundwater samples collected from AOI 86-1 detected concentrations of select VOCs and metals at concentrations exceeding GSI or GSI protection (GSIP) criteria. However, downgradient monitoring wells RFI-86-06 and RFI-86-16 do not exceed GSI criteria for VOCs. In addition, VOCs have not been detected above GSI criteria in the monthly samples collected in from Outfall 004 and Outfall 005.
- The AOI 86-1 LNAPL Area contains PCBs at concentrations up to 4.6 ppm and is infiltrating the Outfall 004 storm sewer.

- Based on the current understanding of risk conditions, the potential volatilization to indoor air risk for future structures due to the biodegradation of LNAPL generating methane can be effectively mitigated through the institutional controls.
- Based on the current understanding of risk conditions, the soil volatilization to indoor air and potential groundwater volatilization to indoor air (on and off Site) can be effectively mitigated through the institutional controls.
- The two LNAPL recovery wells were installed to eliminate the migration of product from the AOI 86-1 area to the catch basin leading to storm sewer Outfall 005. The wells reportedly were successful in removing product and operation of the system was discontinued in 2001.
- From 2003 to 2005, 10 quarterly LNAPL recovery events removed a total of only 0.87gallons of LNAPL from AOI 86-1 wells.
- The AOI 86-1 LNAPL Area is defined by two monitoring wells, RFI-86-02 and FI-86-03, both of which are gauged during annual monitoring events. LNAPL has only been detected at RFI-86-02 at a thickness greater than 0.1 feet once in the last 10 years. Little (0.05 feet) to no LNAPL has been detected at RFI-86-03 in the past ten years.
- Also, LNAPL has not been identified during inspection of the P-traps located in the French drain located on the north side of Leith Street.
- The NSZD testing indicates that LNAPL is being depleted at rates ranging between approximately 397 to 516 gallons per acre per year at AOI 86-1.

3. AOI 86-1 Remedies

3.1 Completed Interim Measures

Several IMs have been completed at AOI 86-1 including the following:

- The tank farm (source area) was removed in 1977. At the time of the removal, some soils were reportedly excavated and disposed of along with the tanks.
- In the 1990s two product recovery wells were installed to eliminate the migration of LNAPL from the AOI 86-1 LNAPL Area into the catch basin connecting to Storm Sewer Outfall 005. According to Site reports, the recovery system was successful in recovering free-phase LNAPL in this area and operation of the system was discontinued in 2001.
- Following shutdown of the recovery system, from 2003 to 2005, an LNAPL monitoring and bailing program was completed helping to remove the product from AOI 86-1 monitoring wells.
- In 2004, sheens were identified in the Outfall 005 storm sewer system. Inspection revealed that the likely source of the sheens was infiltration into the system near the two French drain manholes located on the north side of the Leith Street underpass (**Figure A-**

1). P-traps were installed in both of the French drain manholes to prevent the sheen from discharging to Outfall 005. Quarterly inspections of the P-traps have been completed since 2010 and no LNAPL accumulation has been identified.

Partial removal of product has been completed in this area and is considered a component of the remedy.

3.2 Additional Remedy Recommendations

The remedies recommended to address the mobility, volatilization, GSI and PCB concerns associated with AOI 86-1 LNAPL Area are to eliminate the Outfall 004 pathway via engineering controls, to restrict the area to low occupancy use, and establish institutional controls. These combined remedies will eliminate the infiltration pathway in the short term and prevent future worker exposure to LNAPL impacts in the long term.

3.2.1 Outfall 004 Pathway Elimination

In order to address the risks associated with the LNAPL infiltration into the Outfall 004 storm sewer, the migration pathway through the storm sewer will be eliminated. The preferred option to eliminate this pathway is to re-route the flow from the Outfall 004 storm sewer to the Outfall 013 storm sewer. The re-route would be completed at the western property boundary of the Site, approximately 1,500 west of AOI 86-1, where the Outfall 004 and Outfall 013 storm sewers intersect (**Figure A4-1**). After completing the re-route, the Outfall 004 storm sewer would be bulkheaded and collared downgradient of AOI 86-1 to eliminate this migration pathway. The bulkheaded storm sewer will then be used as a passive recovery trench. A feasibility study for this option is currently underway and the final cost for this option is being evaluated.

3.2.2 004 Passive Recovery Trench

Following completion of bulkheading activities the bulkheaded storm sewer will be monitored for potential LNAPL accumulation and subsequent removal.

In addition, GSI exceedances will continue to be monitored as part of the groundwater monitoring program. Sampling will be conducted to confirm that the impacts are stable or decreasing.

3.2.3 Institutional Controls

In order to address the PCB detections in LNAPL, the AOI 86-1 Area will be restricted to low occupancy use. In addition, future owners will be notified of the presence of PCBs in this area.

The following additional AOI-specific institutional controls, in addition to the Site-wide institutional controls, will be necessary to limit potential for future exposure:

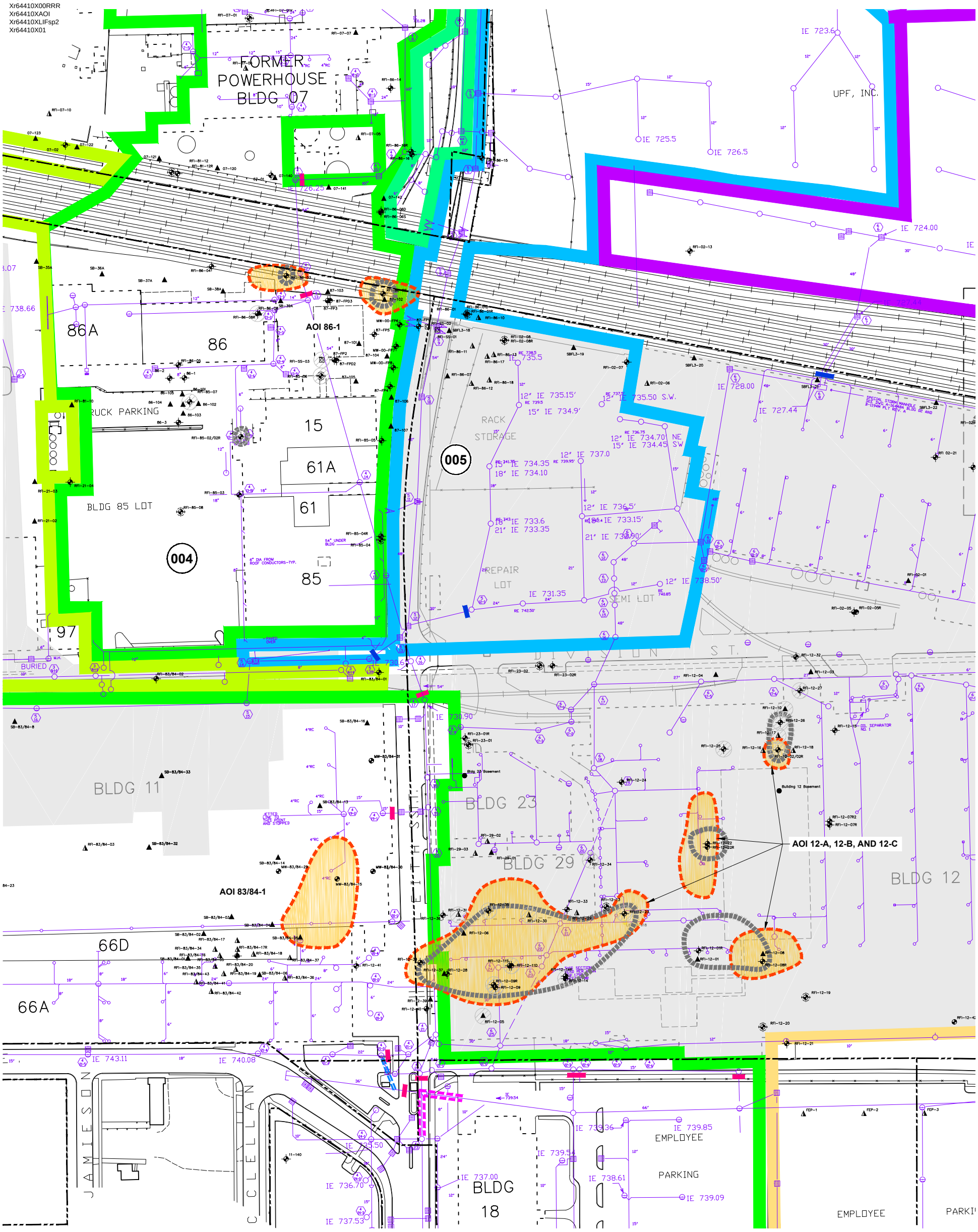
- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads, as shown on **Figure 5 of the main report.**
- Notify future owners of the presence of PCBs, and
- Restrict the area shown on **Figure A3-1** to low occupancy based on the presence of PCBs.

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Figures

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\B0064410\2014\00206\B64410_RRR.dwg LAYOUT: 03 SAVED: 8/12/2014 11:32 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: BBL-FULL.CTB PLOTTED: 8/20/2014 12:43 PM BY: SANCHEZ, ADRIAN

XREFS: IMAGES: PROJECTNAME: ----
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Xr64410X00
Xr64410XUtility
Xr64410XDrainage
Xr64410XLNAPL
Xr64410X00RRR
Xr64410XAOI
Xr64410XLIFsp2
Xr64410X01



0 80' 160'
APPROXIMATE SCALE IN FEET

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

LEGEND:

- PROPERTY BOUNDARY
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- AREAS WITH NO DIRECT DRAINAGE TO THE STORM SEWER
- 004 OUTFALL DRAINAGE AREA AND NUMBER
- STORM SEWER
- COMPLETED BULKHEAD
- PROPOSED REROUTE
- PROPOSED REROUTE
- PROPOSED OUTFALL 004 BULKHEAD LOCATION (TO BE COMPLETED FOLLOWING REROUTE)

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

OUTFALL 004 BULKHEADS AND REROUTE

ARCADIS

FIGURE
A4-1

Appendix A - Addendum No. 1

February 15, 2016

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MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER

From:
Micki M. Maki

Date:
February 15, 2016

ARCADIS Project No.:
B0064410.2016

Subject:
Remedy Recommendation Report
Appendix A - AOI 86-1 Fuel Oil Area - Addendum No.1
Summary of Additional Investigations
RACER Buick City Site, Flint, Michigan

Introduction

This Addendum No. 1 to Remedy Recommendation Report Appendix A presents a summary of investigation data collected at the AOI 86-1 Fuel Oil Area located north of Leith Street, from March 19, 2014 through December 31, 2015 at the Buick City Site (Site) located in Flint, Michigan. Please note that additional investigations conducted at AOI 86-1 *south of Leith Street* are addressed in the addendum to Appendix R - AOI 86-1 Soil Impacts.

Summary of Investigation Activities

Additional investigation activities were completed at AOI 86-1 to delineate the extent of LNAPL and PCB impacts along the property boundary in the vicinity of RFI-86-03; to delineate PCB impacts at RFI-85-02R; and to characterize methane concentrations in soil gas at the property boundary (**Figure A-A1-1**).

RFI-86-03 Area

Four soil borings (SB-86-01 through SB-86-04) and one temporary well (TW-86-05) were completed to refine LNAPL and PCB delineation at the RFI-86-03 Area. The four soil borings were completed along the property boundary, east of RFI-86-03 and TW-86-05 was completed approximately 10 feet to the west of RFI-86-03 (**Figure A-A1-1**). The borings and well were completed to a depth of approximately 10 feet below ground surface (ft bgs). Soil samples were collected at each soil boring from 0 to 2 and the 2 foot interval above the groundwater table and submitted to the laboratory for PCB analysis.

RFI-85-02 Area

During RFI activities PCB-containing LNAPL was detected at temporary well RFI-85-02. Subsequently a permanent monitoring well (RFI-85-02R) was installed adjacent to RFI-85-02; however, LNAPL has not been observed at RFI-85-02R. This delineation investigation included completing four soil borings (SB-86-06 through SB-86-09) in the RFI-85-02 area to delineate the extent of PCB impacts. The borings were completed to a depth of approximately 10 feet bgs. Soil samples were collected at each boring from the two foot interval above the groundwater table and submitted to the laboratory for PCB analysis.

Methane Evaluation

Two soil gas sampling probes (SGP-86-01 and SGP-86-02) were installed to evaluate methane along the property boundary adjacent to the AOI 86-1 LNAPL Areas. Two rounds of soil gas samples were collected from each probe and submitted to the laboratory for methane analysis.

Summary of Data Evaluation

RFI -86-03 Area

No indications of impact (elevated PID, staining, odors, sheens, etc.) were identified in soil borings SB-86-01 through SB-86-04. However, strong odors, staining, elevated PID readings, and sheens were identified at TW-86-05; therefore, a temporary well was installed at this location (**Figure A-A1-1**). PCBs were not detected in the soil samples collected from SB-86-01 through SB-86-04 or TW-86-05 (**Table A-A1-1**). In addition, temporary well TW-86-05 was gauged in January and August 2015 and no evidence of LNAPL was detected. The extent of LNAPL and PCBs associated with the AOI 86-1 LNAPL Area have been delineated.

RFI-85-02 Delineation

There were no indications of impact (elevated PID, staining, odors, sheens, etc) in soil borings SB-86-06 through SB-86-09 (**Figure A-A1-1**). No PCBs were detected in the soil samples collected from these borings (**Table A-A1-1**).

Methane Evaluation

Soil gas samples were collected from SGP-86-01 and SGP-86-02 in June and November 2015 (**Table A-A1-2**). Methane was detected in the June sample collected from SGP-86-01 at a concentration of 20 parts per million by volume (ppmv) which is below the screening level of 12,500 ppmv for methane. The remaining three soil gas samples did not detect methane.

Table A-A1-1 **Summary of Additional Soil Investigation**
Remedy Recommendation Report Appendix A – AOI 86-1 Fuel Oil Area - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GSIP	NDC	NPSIC	NSVIA	NVSICI	SB-86-01 0 - 2 12/03/14	SB-86-01 5 - 7 12/03/14	SB-86-02 0 - 2 12/03/14	SB-86-02 5 - 7 12/03/14	SB-86-03 0 - 2 12/03/14	SB-86-03 6 - 8 12/03/14	SB-86-04 0 - 2 12/03/14
PCB														
Aroclor-1016 (PCB-1016)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Miscellaneous														
Total solids	mg/kg	- -	- -	- -	- -	- -	- -	860,000	830,000	860,000	930,000	860,000	900,000	860,000

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GSIP	NDC	NPSIC	NSVIA	NVSICI	SB-86-04 6.5 - 8.5 12/03/14	SB-86-05 0 - 2 12/03/14	SB-86-05 4 - 6 12/03/14	SB-86-06 10 - 12 12/03/14	SB-86-07 5 - 7 12/03/14	SB-86-08 6 - 8 12/03/14	SB-86-09 7 - 9 12/03/14
PCB														
Aroclor-1016 (PCB-1016)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Aroclor-1221 (PCB-1221)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Aroclor-1232 (PCB-1232)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Aroclor-1242 (PCB-1242)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Aroclor-1248 (PCB-1248)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Aroclor-1254 (PCB-1254)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Aroclor-1260 (PCB-1260)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Miscellaneous														
Total solids	mg/kg	- -	- -	- -	- -	- -	- -	910,000	870,000	780,000	830,000	880,000	850,000	820,000 [850,000]

Notes:
mg/kg - milligram per kilogram
ft - feet
CSAT - Soil Saturation Concentration Screening Level
GSIP - Groundwater Surface Water Interface Protection Criteria
NDC - Nonresidential Direct Contact Criteria
NPSIC - Nonresidential Particulate Soil Inhalation Criteria
NSVIA - Nonresidential Soil Volatilization to Indoor Air Inhalation Criteria
NVSICI - Nonresidential Infinite Source Volatile Soil Inhalation Criteria
U – not detected above the reporting limit□
Y - Elevated reporting limit due to high target concentration
Shaded and bolded results exceed one or more criteria.

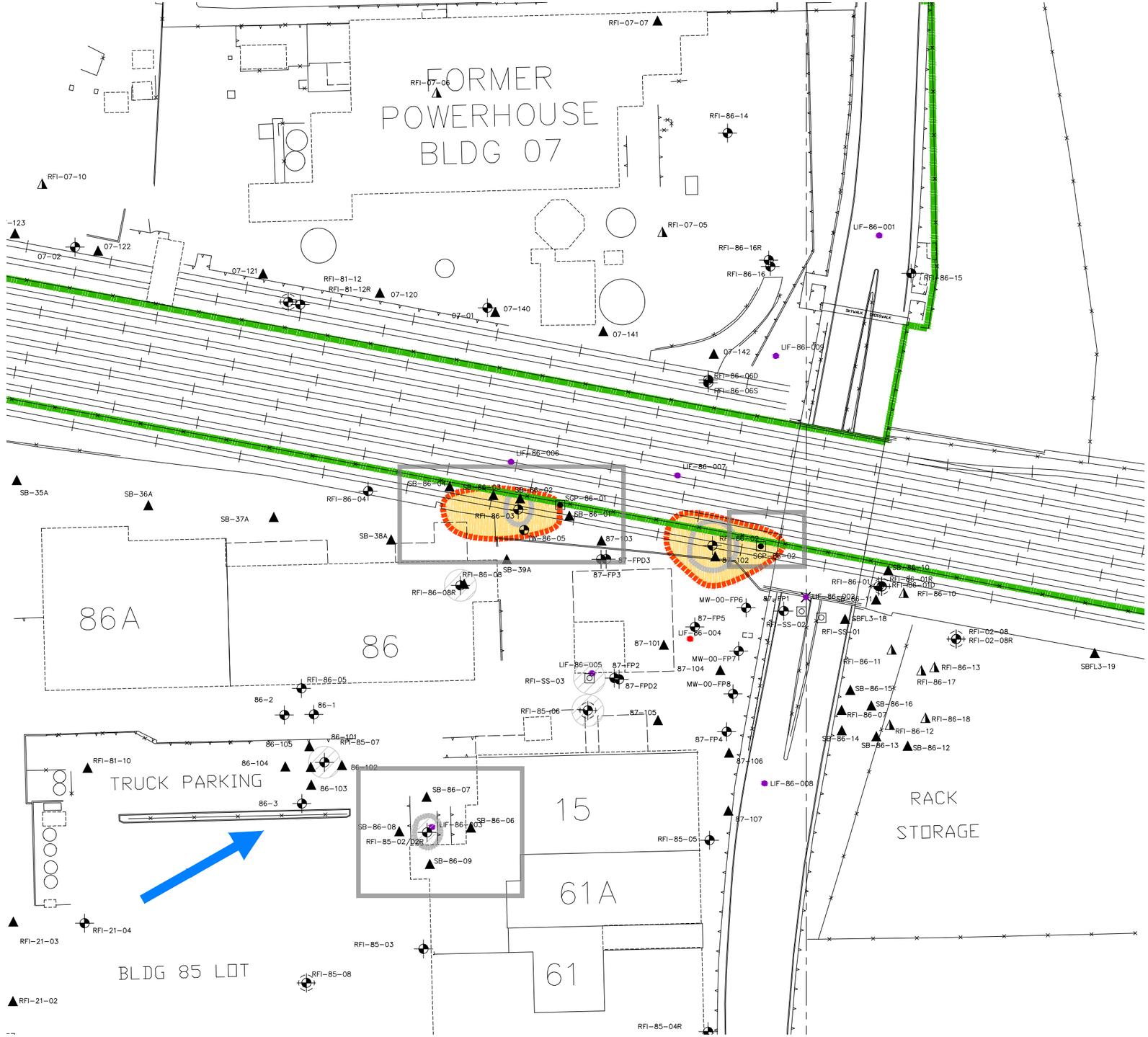
Table A-A1-2 **Summary of Soil Gas Investigation**
Remedy Recommendation Report Appendix A – AOI 86-1 Fuel Oil Area - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	SGVI-NR	SGVI-SS-NR	SGP-86-01 5.0-5.5 06/18/15	SGP-86-01 5.0-5.5 11/24/15	SGP-86-02 5.5-6.0 06/18/15	SGP-86-02 5.5-6.0 11/24/15
Volatile Organics							
Methane	ppmv	12,500	12,500	20	15 U	10 U [10 U]	15 U

Notes:
ppmv - parts per million by volume
ft - feet
U – not detected above the reporting limit
Shaded and bolded results exceed one or more criteria.

SGVI-SS-NR - Nonresidential Vapor Intrusion Shallow Soil Gas (sub-slab) Screening Levels .Samples collected less than or equal to 1.5 meters bgs or building foundation.
SGVI-NR - Nonresidential Vapor Intrusion Deep Soil Gas Screening Levels*

* - SGVI presented in this table are health-based values. The applicable SGVI are based on the higher of the health-based value and the appropriate analytical reporting limit.



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- SOIL GAS PROBE
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- DEMOLISHED BUILDING
- GENERAL GROUNDWATER FLOW DIRECTION

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200
- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 02/15/2016.

0 40' 80'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 86-1
INVESTIGATION LOCATIONS AND LNAPL EXTENTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
A-A1-1

CITY: SYRACUSE DIV/GROUP: ENV DB: A.SANCHEZ LD: ALS/GMS PIC: C.S.PETERS PM: C.KIKER TM: C.KIKER LYR: ON=*;OFF=*REF*
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IMAGES: PROJECTNAME: ----

Appendix B

AOI 05-1/05-5 Cutting Oil Area
Remedy Recommendation Memo

ARCADIS of Michigan
28550 Cabot Drive
Suite 500
Novi
Michigan 48377
Tel 248 994 2240
Fax 248 994 2241

MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER Trust
Dave Favero, RACER Trust
Chris Peters, ARCADIS
Steve Gaito, ARCADIS

From:
Micki M. Maki
Victoria Stacey

Date:
August 29, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
Priority #2 - AOI 05-1/05-5 Cutting Oil Areas Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

As part of the LNAPL remedy evaluation process, the Site's 17 LNAPL areas were prioritized based on risk. The AOI 05-1/05-5 areas are ranked as Priority #2 with a total potential risk score of 15 (**Table 5 of the main report**). Conceptual site model cross-sections are attached (**Figures B-1 and B-2**) that provides an overview of the AOI 05-1/05-5 LNAPL Areas impacts and interim measures (IMs).

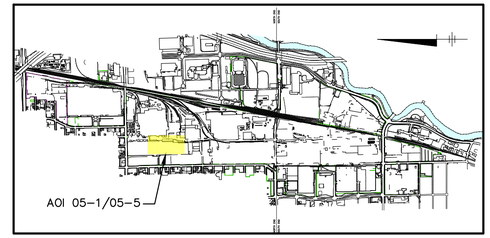
Historical IMs completed at the AOI 05-1/05-5 LNAPL Areas include operation of three passive recovery trenches, two LNAPL recovery wells, and an LNAPL bailing program. The partial and effective removal of product completed in this area is considered a component of the remedy.

The compositional and saturation concerns identified for the AOI 05-1/05-5 LNAPL Areas were evaluated in the LNAPL decision tree (**Attachment 2**) and are summarized below:

- There are unacceptable groundwater/surface water interface (GSI), direct contact, particulate soil inhalation and vapor phase exposures.
- Theoretically, there is a potential unacceptable vapor phase exposure risk associated with future redevelopment scenarios; however, this will be addressed by the proposed institutional controls.
- No feasible options exist to mitigate unacceptable risk through compositional change.
- The LNAPL is not migrating; however, it is mobile and infiltrating the Outfall 003 storm sewer.

- Historic IMs indicate that in the past LNAPL has been recoverable; however, it is uncertain whether future LNAPL recovery is practical.
- In addition to eliminating the LNAPL infiltration to the Outfall 003 storm sewer, controls are required to mitigate potential risk associated with soil inhalation, direct contact and vapor intrusion.

Based on the current understanding of the conceptual site model risks, the remedies recommended to address the compositional and saturation concerns associated with the AOI 05-1/05-5 LNAPL Area are the elimination of infiltration to the Outfall 003 storm sewer, targeted excavation, and engineering and institutional controls.



SITE MAP

0 2000' 4000'
SCALE IN FEET

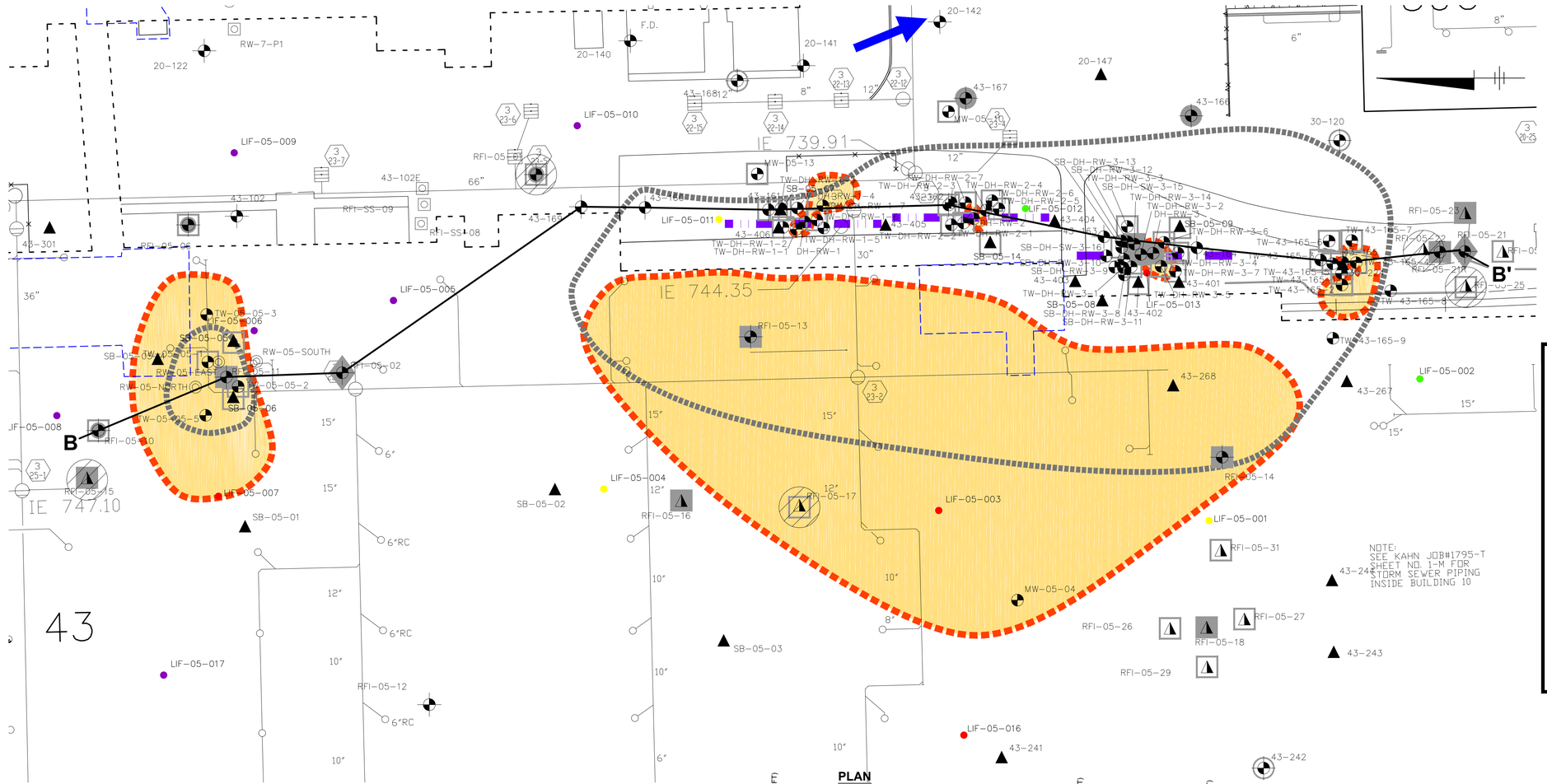
AOI 05-1/05-5 CUTTING OIL PLUME

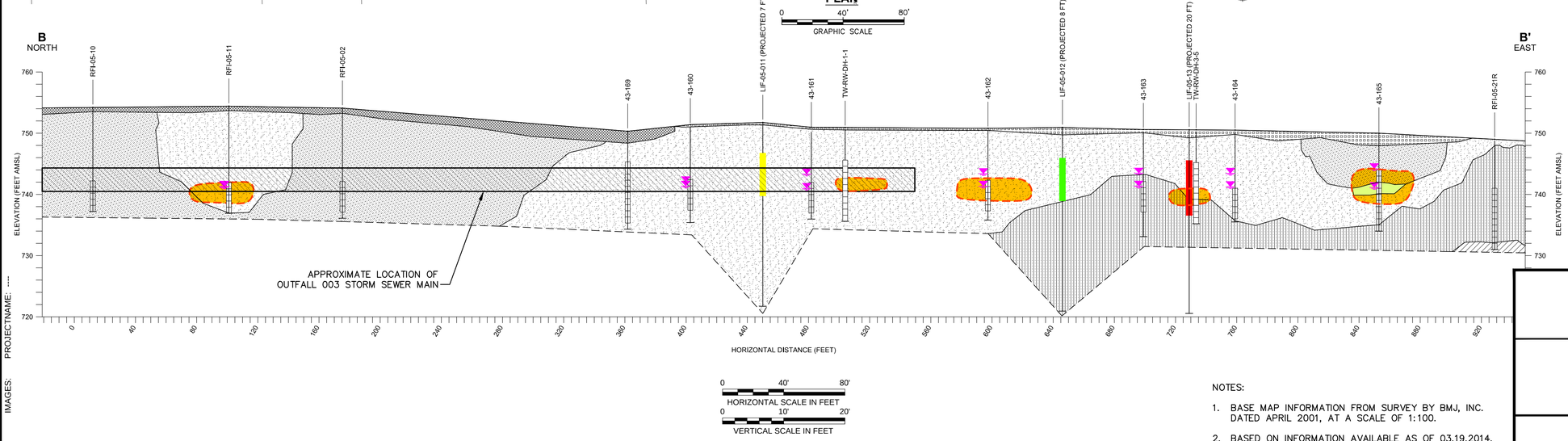
KEY LNAPL COMPOSITION AND SATURATION CONCERNS

1) STORM SEWER INTERSECTS GROUNDWATER TABLE ALLOWING INFILTRATION OF LNAPL AND GROUNDWATER
2) PCB DETECTIONS IN SOIL AND LNAPL EXCEED DIRECT CONTACT CRITERIA. CONCENTRATIONS RANGE FROM NON-DETECT TO 160 PPM
3) DIRECT CONTACT CONCERN FOR LEAD
4) PARTICULATE SOIL INHALATION CONCERN FOR MANGANESE
5) GROUNDWATER VOLATILIZATION TO INDOOR AIR
6) TRANSMISSIVITY RESULTS FROM AOI 05-1 PLUME WERE BELOW MDEQ AND ITRC VALUES
7) POTENTIAL VOLATILIZATION TO INDOOR AIR CONCERN FOR FUTURE STRUCTURES

COMPLETED INTERIM MEASURES AND RECOMMENDED REMEDIES

- R-1) 15 YEARS OF LNAPL REMOVAL FROM PASSIVE RECOVERY TRENCHES AT AOI 05-1 (IM COMPLETED)
- R-2) ~5 YEARS OF LNAPL REMOVAL FROM RECOVERY WELLS AT AOI 05-5 (IM COMPLETED)
- R-3) OUTFALL 003 PATHWAY ELIMINATION
- R-4) TARGETED EXCAVATION
- R-5) INSTITUTIONAL CONTROLS





NOTES:

1. BASE MAP INFORMATION FROM SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.
2. BASED ON INFORMATION AVAILABLE AS OF 03.19.2014.

RACER TRUST
BUICK CITY, FLINT, MICHIGAN

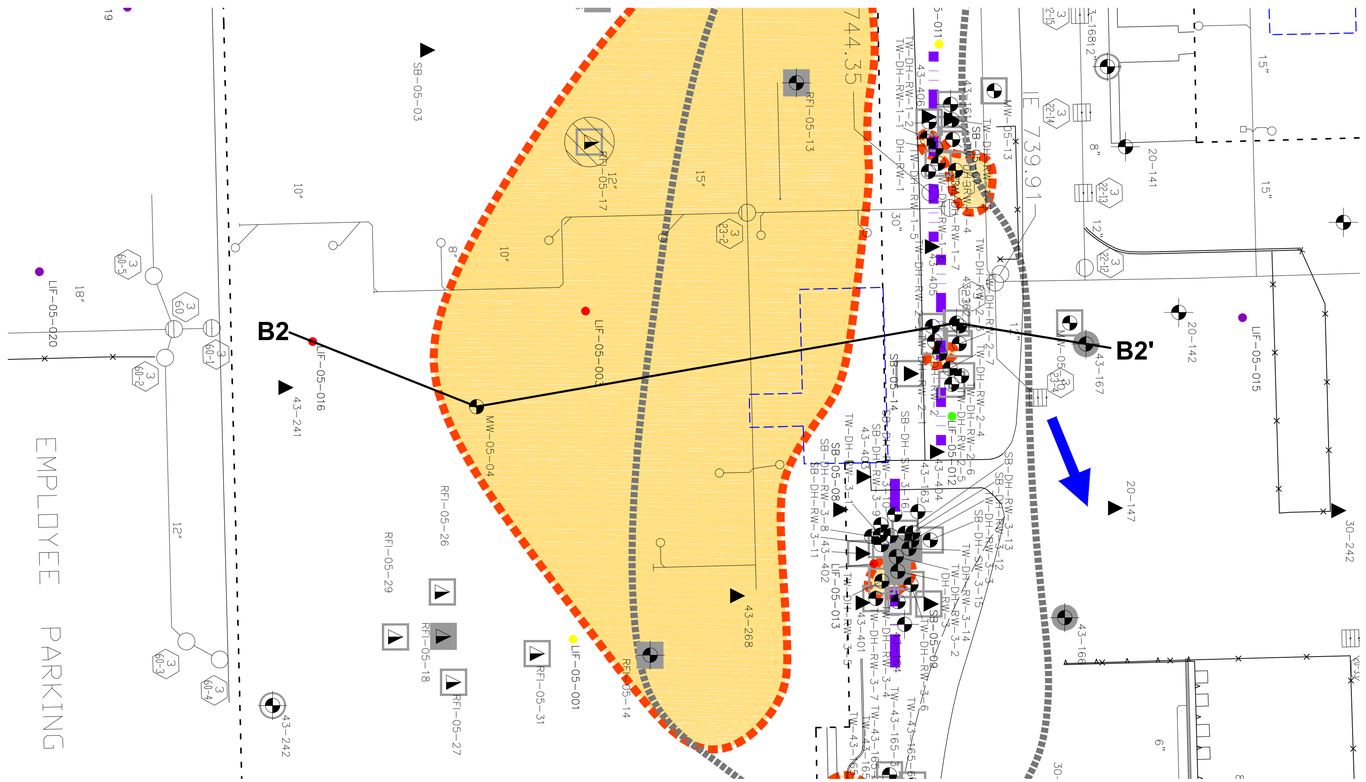
AOI 05-1/05-5 CONCEPTUAL SITE MODEL CROSS SECTION B-B'

ARCADIS

FIGURE
B-1

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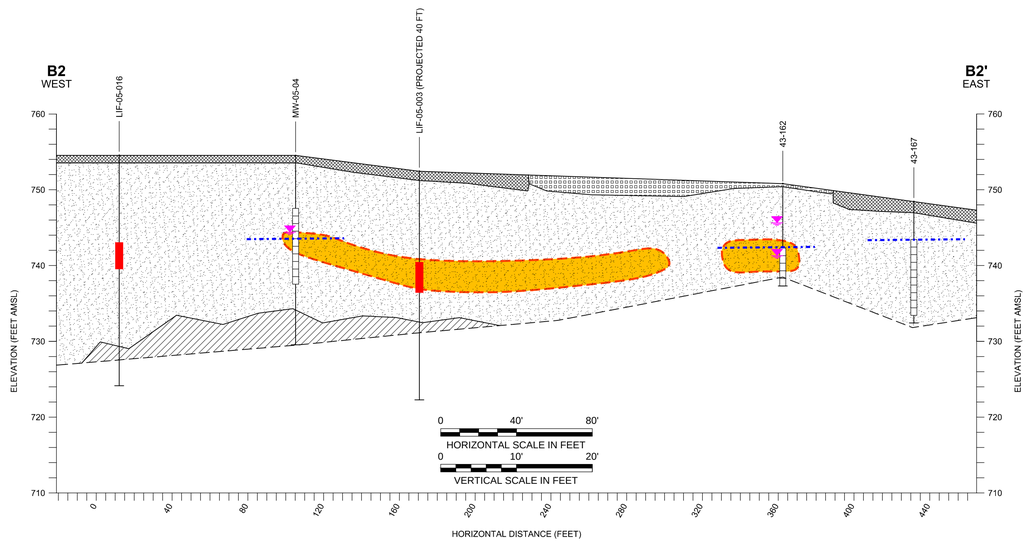
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IMAGES: PROJECTNAME: ----

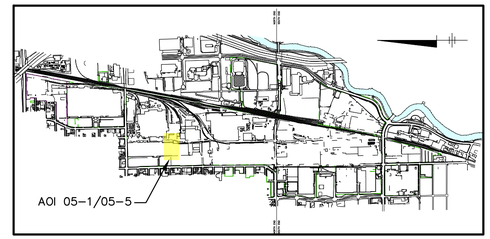


PLAN

0 40' 80'

GRAPHIC SCALE





SITE MAP

0 2000' 4000'

SCALE IN FEET

AOI 05-1/05-5 CUTTING OIL PLUME

KEY LNAPL COMPOSITION AND SATURATION CONCERNS

1) STORM SEWER INTERSECTS GROUNDWATER TABLE ALLOWING INFILTRATION OF LNAPL AND GROUNDWATER
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R-2) ~5 YEARS OF LNAPL REMOVAL FROM RECOVERY WELLS AT AOI 05-5 (IM COMPLETED)

R-3) OUTFALL 003 PATHWAY ELIMINATION

R-4) TARGETED EXCAVATION

R-5) INSTITUTIONAL CONTROLS

NOTES:

1. BASE MAP INFORMATION FROM SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.
2. BASED ON INFORMATION AVAILABLE AS OF 03.19.2014.

RACER TRUST
BUICK CITY, FLINT, MICHIGAN

AOI 05-1/05-5 CONCEPTUAL SITE MODEL CROSS SECTION B2-B2'

ARCADIS

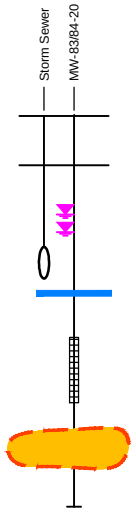
FIGURE
B-2

LEGEND

- PROPERTY BOUNDARY
- HISTORICAL LNAPL EXTENT
- CURRENT LNAPL EXTENT
- STORM SEWER
- ABANDONED STORM SEWER LATERAL
- APPROXIMATE LOCATION OF RECOVERY TRENCH
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- A1 — A1' LINE OF SECTION
- RFI MONITORING WELL LOCATION
- MONITORING WELL LOCATION
- RECOVERY WELL (NAPL) LOCATION
- PIEZOMETER LOCATION
- SOIL BORING LOCATION
- DECOMMISSIONED WELL LOCATION
- EVIDENCE OF PRODUCT OBSERVED IN SOIL

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

- <5
- 5–10
- 10–100
- 100–200
- >200
- HAND AUGER REFUSAL (TOP 5')
- GROUNDWATER SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- GROUNDWATER SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- SOIL SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES DO NOT EXCEED APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES EXCEED ONE OR MORE APPLICABLE CRITERIA



- WELL/BORING ID
- EXISTING GRADE
- LITHOLOGICAL CONTACT (DASHED WHERE INFERRED)
- NAPL LEVEL (HISTORIC HIGH AND LOW LEVELS)
- WATER TABLE
- WELL SCREEN
- APPROXIMATE EXTENT OF LNAPL
- WELL/BORING BOTTOM
- ASPHALT
- CONCRETE
- CLAY
- FILL
- GRAVEL
- INTERBEDDED SAND AND CLAY
- INTERBEDDED SANDS AND SILTS
- INTERBEDDED SILT AND CLAY
- SAND
- SILT
- SILTY SAND

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

CROSS SECTION LEGEND

ARCADIS

FIGURE
B-3

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB0064410\2014\00206\Xsections\64410V01.DWG LAYOUT: 1A SAVED: 7/11/2014 11:58 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: BBL-FULL.CTB PLOTTED: 7/11/2014 1:56 PM BY: SANCHEZ, ADRIAN
XREFS: IMAGES: PROJECTNAME: ---
Xr64410X3Bsp
Xr64410XDrainage
Xr64410X01
Xr64410XLIFsp2
Xr64410X01
Xr64410XAOI
Xr64410XLNAPL

Attachment 1

LNAPL Conceptual Site Model

Priority #2 - AOI 05-1/05-5 Cutting Oil Areas Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 1 - Conceptual Site Model

This attachment presents a conceptual site model for the area of interest (AOI) 05-1/05-5 Cutting Oil Areas (AOI 05-1/05-5 light non-aqueous phase liquid [LNAPL] Areas), which is located at the Buick City Site (Site) in Flint, Michigan (**Figure B1-1**).

1. Background

AOI 05-1/05-5 LNAPL Areas are located at the Northend of the Site in the central portion of the former Factory 05 footprint (**Figure B1-2**). Historically, operations at former Factory 05 included manufacturing of transmission components; including the machining and heat treating of vehicle shafts and gear carriers. The AOI 05-1 LNAPL Area is presumably due to historical releases associated with metal chip processing and metal machining in this area of the factory. The AOI 05-5 LNAPL Area is thought to be associated with a historic release of approximately 5,000 gallons of oil.

Investigation data previously presented in Site reports are not re-presented in this memo. However, relevant AOI 05-1/05-5 LNAPL Areas investigation data that has not previously been presented in a Site report are attached or are presented in **Appendix X**.

2. Former Interim Measures

2.1 LNAPL Monitoring and Bailing Program

During the Site-wide LNAPL monitoring program conducted from 2001 through 2005, a total of approximately 50 gallons of LNAPL was recovered during quarterly bailing events in the AOI 05-1/05-5 LNAPL Areas.

2.2 Passive Recovery Trenches

In 1995, three passive recovery trenches were installed along the east side of Factory 05 to collect PCB-containing LNAPL from the AOI 05-1 Area. The trenches were approximately 14 feet deep, 3 feet wide and 100 feet long, lined with a geofabric and backfilled with gravel. LNAPL was removed from the trenches via 30-inch-diameter recovery wells installed at the midpoint of the trenches. The total amount of

LNAPL recovered by these trenches in unknown; however, one 350-gallon tote of LNAPL was removed from each trench in 2001. The passive recovery trenches operated from 1995 to 2010.

2.3 Recovery Wells

The AOI 05-5 LNAPL Area originated from a release of approximately 5,000 gallons of cutting oil in 1997. Three, 4-inch-diameter groundwater monitoring wells were installed to the east of the tank. Product was identified in two monitoring wells (RW-05-North and RW-05-East). Two pneumatic free product recovery pumps were installed in the wells and initially discharged to the process waste treatment sewer catch basin located adjacent to the tank. Approximately 1,000 gallons of product was recovered and discharged to the product waste catch basin. Due to the presence of PCBs in the LNAPL, the recovered fluids were subsequently piped to two product storage tanks located within Building 43. By September 2001, use of this system had been discontinued because when the system was operating, the LNAPL was reportedly chemically attacking the recovery pumps and causing them to malfunction.

3. AOI 05-1/05-5 Site Setting and Data Summary

This section provides a summary of the geology, hydrogeology, analytical data, and LNAPL characteristics and extent of impacts for the AOI 05-1/05-5 LNAPL Areas. **Figure B1-2** presents the locations of the existing and abandoned monitoring wells and soil borings in the AOI 05-1/05-5 Areas.

3.1 AOI 05-1/05-5 Geology and Hydrogeology

- *Geology:* The monitoring well logs from both the AOI 05-1 and AOI 05-5 LNAPL Areas indicate that the soils are primarily fine sand down to approximately 16 feet below ground surface (bgs). Generally, the logs also indicated visual evidence of LNAPL impacts from 2 to 16 feet bgs. Boring logs for recently installed borings, monitoring wells, and temporary wells are attached**.**

- *Groundwater/LNAPL Levels:* The AOI 05-1 Area is defined by 10 monitoring wells, 3 recovery wells, and 31 temporary wells in the southeastern portion of the former Factory 05 area. LNAPL has been measured consistently at 17 of the wells (43-161, 43-162, 43-163, 43-164, 43-165, MW-05-04, RFI-05-13, RFI-05-14, DH-RW-1 through 3, TW-DH-RW-01-01, TW-DH-RW-01-07, TW-DH-RW-03-02, TW-DH-RW-03-05, TW-43-165-02, and TW-43-165-04) and intermittently at 43-160. The greatest thickness of LNAPL measured at the AOI 05-1 LNAPL Area was 5.39 feet at RFI-05-14 in June 2013.

  The AOI 05-5 Area is defined by three wells (RFI-05-11, RW-05-East, and RW-05-North) and three temporary wells (TW-05-05-1, TW-05-05-2, and TW-05-05-5) in the northeastern portion of the former Factory 05 area. The greatest thickness of LNAPL at AOI 05-5 was measured at RW-05-East at 5.01 feet in 2003.

Depth to groundwater in the area ranges from 5 to 15 feet bgs. Based on historic groundwater level measurements, groundwater flow in this portion of the Site is generally to the southeast. Recent groundwater level data are presented in **Appendix X.**

3.2 Groundwater and Soil Analytical Data

Analytical data were compared to applicable Michigan Part 201 non-residential criteria.

3.2.1 Groundwater Analytical Data

Groundwater samples were collected from thirteen monitoring wells (30-120, 30-140, 43-140, 43-166, 43-167, 43-168, 43-242, RFI-05-01, RFI-05-02, RFI-05-06, RFI-05-10, RFI-05-21, and RFI-05-30) located in the AOI 05-1 LNAPL area and compared to applicable criteria. The groundwater samples exceed groundwater surface water interface (GSI) criteria for arsenic (18 to 47/10 ug/L), copper (28/22 ug/L), cyanide, (24 to 25/5.2 ug/L) mercury (0.29/ 0013 ug/L), nickel (200 to 220/120 ug/L). In addition, trichloroethene was detected in monitoring well 43-140 at concentrations ranging from 205 to 250 ug/L, which exceeds the GSI criteria of 200 ug/L; however, concentrations were below this criterion in the last groundwater sample collected.

Cyanide and mercury have not been detected in any of the LNAPL samples from either AOI 05-1 or 05-5; therefore, the groundwater exceedances of cyanide and mercury are not likely related to the LNAPL. **Figure B1-3** shows the areal extent of groundwater plumes.

3.2.2 Soil VOC, SVOC, and Metals Analytical Data

Forty-nine soil samples were collected from 22 locations in the AOI 05-1/05-5 LNAPL Area and submitted for VOC, SVOC, and/or metals analysis. Groundwater surface water interface protection (GSIP) criteria for carbazole (1.38/1.1 mg/kg), phenanthrene (3.18 to 5.6/2.1 mg/kg), arsenic (6.87 to 12/4.6 mg/kg), cobalt (7.2 to 7.6/2 mg/kg), copper (200 to 21,000/130 mg/kg), manganese (930 to 2,400/98 mg/kg), mercury (0.202 to 1.4/0.05 mg/kg), selenium (0.53/0.4 mg/kg) and silver (9.8/0.1 mg/kg) have been exceeded in select soil samples. In addition, concentrations at two locations exceed non-residential direct contact (NDC) criteria for lead (3,100 to 3,500/900 mg/kg) and one location exceeds nonresidential particulate soil inhalation criteria (NPSIC) for manganese (2,400/1,500 ug/L).

3.2.3 GSI Evaluation

The AOI 05-1/05-5 LNAPL Areas are located within the Outfall 003 storm sewer drainage basin. Storm water samples were collected from the Outfall 003 storm sewer during 36 sampling events, as part of the monthly NPDES Plus Monitoring Program (NPMP). The only constituents exhibiting

repeatable GSI exceedances in the Outfall 003 sampling have been cyanide and mercury. Nickel and trichloroethene concentrations in the NPMP samples collected from Outfall 003 (36 events) have not exceeded their respective GSI criteria. In addition, arsenic and copper exceeded GSI criteria in the NPMP samples once each.

As discussed in further detail in **Appendix BB**, GSI exceedances in the Site storm sewers are being evaluated by the NPMP sampling. Data evaluations completed to date suggest that the majority of the metals impacts in the Outfall 003 storm sewer can be addressed by a mixing zone based remedy; however, additional data collection and evaluation is needed.

3.2.4 Soil PCB Analytical Data

In 2013 and 2014, PCB delineation investigation activities were completed at the Site to refine the extent of PCB impacts in soil and LNAPL. At the AOI 05-1/05-5 LNAPL Areas, two monitoring wells, 31 temporary wells and 15 soil borings were completed as part of delineation activities. A summary of the investigation activities completed is provided below.

- At AOI 05-1 additional investigation activities were completed at DH-RW-1, DH-RW-2, DH-RW-3, and 43-165 to delineate the extent of PCBs and LNAPL. A total of 126 soil samples were collected from 13 soil borings and 28 temporary well locations and submitted for laboratory analysis of PCBs. The locations of the soil borings and temporary wells are presented on **Figure B1-4.** Although 58 of the soil samples detected PCBs, only four samples exceeded NDC criteria (22-54/16 mg/kg). The analytical results are presented in **Appendix X**.
- At AOI 05-5 two soil borings (SB-05-05 and SB-05-06) and four temporary wells (TW-05-05-01, TW-05-05-02, TW-05-05-03, and TW-05-05-04) were installed to further delineate the extent of PCBs and LNAPL. A total of 20 soil samples were submitted for PCB analysis. PCBs were detected in four samples at concentrations ranging from 3.4 to 12 ppm, which are below the NDC criteria. The locations of the soil borings and temporary wells are presented on **Figure B1-5.**
- Two monitoring wells (MW-05-10 and MW-05-13) were installed along the Outfall 003 storm sewer main to investigate impacts adjacent to the sewer main. A total of four soil samples were collected and submitted for laboratory analysis of PCBs. PCBs were not detected in these samples. The locations of the monitoring wells are presented on **Figure B1-2**. The analytical results are presented in **Appendix X**.

Also, as part of RFI activities 33 soil samples collected from 20 locations in the AOI 05-1/05-5 LNAPL Areas were submitted for PCB analysis. PCBs were detected in five soil samples at

concentrations of less than 1ppm.

3.2.5 Vapor Intrusion Evaluation

Due to the presence of shallow groundwater and LNAPL (approximately 5 to 15 feet below ground surface) at AOI 05-1/05-5, groundwater data were also compared to the applicable Non-Residential Screening Values for the Vapor Intrusion Pathway presented in the *Michigan Department of Environmental Quality (MDEQ) Guidance Document for the Vapor Intrusion Pathway* (further discussed in Section 3.4 of the Report). Groundwater data from two locations (RFI-05-20 and 43-140) in the AOI 05-1/05-5 area exceed applicable screening levels.

As there are no structures at the Site, the MDEQ Part 201 criteria are appropriate for comparison for soil data. As discussed in Section 3.2.2, manganese was detected at a concentration exceeding NPSIC criteria in a soil sample collected from RFI-05-23.

3.3 LNAPL Characteristics

- *LNAPL Analytical Data:* LNAPL present at AOI 05-1/05-5 consists primarily of cutting oil. Additional analysis indicated that:

  - At the AOI 05-1 LNAPL Area laboratory analysis indicates that the LNAPL has a viscosity of 4.2 centipoise, an interfacial tension of 14 dynes/centimeter, and a specific gravity of 0.89. PCB analysis of the LNAPL indicated that concentration and Aroclors vary greatly. While no PCBs were detected at RFI-05-13, PCB concentrations in the remaining LNAPL samples ranged from 4.6 to 200 ppm. In addition, the concentrations of arsenic, chromium, and trichloroethene at the AOI 05-1 LNAPL Area exceeded the RCRA toxicity characteristic criteria; however, TCLP analysis has not been completed.

  - At the AOI 05-5 LNAPL Area laboratory analysis indicates that the LNAPL has a viscosity of 3.5 centipoise, and interfacial tension of 15 dynes/centimeter, and a specific gravity of 0.90. PCB analysis of the LNAPL indicated that concentration and Aroclors vary greatly. While no PCBs were detected at RW-05-North, the remaining LNAPL samples detected PCBs at concentrations ranging from 134 to 159 ppm. In addition arsenic was detected at a concentration that exceeds the RCRA toxicity characteristic criteria; however, TCLP analysis has not been conducted.

For reference, the viscosity (at 68 degrees Fahrenheit) of kerosene is 2.71 cp (Ingersoll-Rand, 1981). The LNAPL analytical data are presented in **Appendix X**.

- *LIF Data:* Twenty LIF borings were completed in the AOI 05-1/05-5 LNAPL area. The LIF response is consistent with the known LNAPL types, cutting oil. The vertical range of LIF impact (greater than 5%) along the eastern side of the AOI 05-1 LNAPL Area is typically 5 to 13.5 feet bgs. In the western portion of the AOI 05-1 area (beneath the former Factory 05 building slab), the vertical impacts are primarily 11.5 to 16 feet bgs. **Figure B1-3** presents the results of the LIF investigation and the extent of impacts associated with the AOI 05-1/05-5 LNAPL Areas.

- *Transmissivity:* Transmissivity testing was performed at three monitoring well locations (43-162, 43-165, and MW-05-04) in the AOI 05-1 LNAPL Area. Testing was inconclusive at 43-162 and 43-165 and transmissivity could not be calculated. Based on LNAPL baildown test results, the LNAPL transmissivity quantified at monitoring well MW-05-04 was 0.05 square feet per day (ft^2/day), which is less than both the Interstate Technology and Regulatory Council (ITRC) and MDEQ draft threshold values for recovery making recovery impractical in this portion of the LNAPL area.

- *Natural Source Zone Depletion (NSZD):* NSZD was completed at AOI 05-1 to establish ongoing natural attenuation rates of LNAPL as a baseline for comparison to active LNAPL recovery technologies. Two carbon traps were installed in the eastern portion of the AOI 05-1 LNAPL Area which is not covered by asphalt or concrete. The NSZD results indicated that LNAPL near monitoring well 43-162 is being depleted at a rate of 797 gallons per acre per year and at monitoring well 43-163 LNAPL is being depleted at a rate of 664 gallons per acre per year.

3.4 Extent of LNAPL

During the RCES preparation, the LNAPL area of the AOI 05-1/05-5 Areas was calculated based on historical data. The footprint of the LNAPL area containing approximately 0.5 ft or greater of LNAPL was estimated to be approximately 93,800 square feet. Based on the results of the LIF investigation, additional soil borings and monitoring wells were recently installed to further delineate the extent of LNAPL at AOI 05-1/05-5. The extent of LNAPL has been revised to reflect the current extent of LNAPL (as discussed in Section 2.1.3 of the main report), which is approximately 80,000 square feet. Based on the LIF and soil boring logs, approximate depth of impacts are as follows:

- At AOI 05-1, the impacts in the western portion of the area are beneath the former Factory 05 slab at a depth of 11.5 to 16 feet bgs. In the eastern portion of the area, the impacts are from 5 to 13.5 feet. The difference in depth to impacts is attributed to the presence of the former building slab.
- At AOI 05-5, the impacts are 10 to 13 feet bgs.

Boring Logs

Date Start/Finish: 4/11/13-4/11/13
Drilling Company: Stearns Drilling
Driller's Name: Brian Marshall
Drilling Method: Sonic
Sampling Method: Hand Auger/ 4" Core Barrel
Rig Type: Mini Sonic

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 25.0' bgs
Surface Elevation: NA

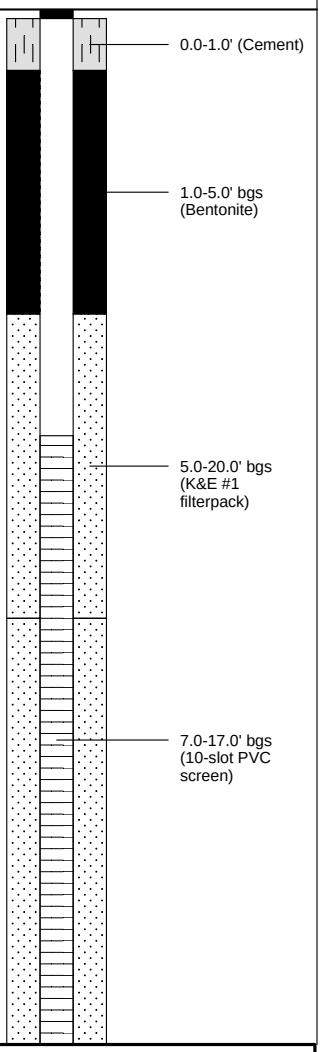
Descriptions By: T. Stevens

Well/Boring ID: **MW-05-04**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description
0 / 0				NA			(0.0-1.0') CONCRETE.
				0.0			(1.0-5.0') SAND, fine to medium, subrounded; trace granules, subangular; poorly sorted; dry; dark yellowish brown (10YR 4/4). Note: Color change to black (10YR 2/1) at 2.0-2.5' bgs.
	1	0.0-5.0	5.0	0.0			
				0.0			
				0.0			
5 / -5				NA			(5.0-7.0') SAND, fine to medium, subrounded; and SILT, low plasticity, rapid dilatancy; trace granules; poorly sorted; wet; dark gray (10YR 4/1). Note: Slight odor.
				NA			
	2	5.0-10.0	5.0	NA			(7.0-10.5') SAND, medium to coarse, subrounded to subangular; and PEBBLES, small to very large, subrounded to subangular, little granules, subangular; poorly sorted; dry; brown (10YR 5/3).
				NA			
				NA			
10 / -10				NA			(10.5-20.0') SAND, fine to medium, subrounded; well sorted; wet; dark gray (10YR 4/1). Note: Wet at 11.0' bgs. Strong odor from 10.5-15.0' bgs.
				NA			
	3	10.0-15.0	5.0	NA			
				NA			
				NA			
15 / -15				NA			Color change to yellowish brown (10YR 5/4) at 15.0' bgs.
				NA			



Remarks: Hand Auger to 5.0' bgs.
No PID values below 5.0' bgs due to 5-gas meter malfunction.

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Date Start/Finish: 4/11/13-4/11/13
Drilling Company: Stearns Drilling
Driller's Name: Brian Marshall
Drilling Method: Sonic
Sampling Method: Hand Auger/ 4" Core Barrel
Rig Type: Mini Sonic

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 25.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **MW-05-04**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
			10.0	NA NA NA				
20 -20		15.0-25.0		NA NA NA NA NA			(20.0-25.0') CLAY, high plasticity, no dilatancy; trace very fine sand; moist; soft; gray (10YR 5/1).	
25 -25							End of boring at 25.0' bgs.	
30 -30								
35 -35								

Remarks: Hand Auger to 5.0' bgs.
No PID values below 5.0' bgs due to 5-gas meter malfunction.

ARCADIS
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Project: B0064410.2013.00206 Template: Design-ARCADIS_Analytical-Well 2013
Data File: Data File Name Date: 6/17/2013 Created/Edited by: T. Stevens

Date Start: 1/31/2014
Date Finish: 1/31/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 8.0'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **MW-05-10**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Overcast, 26 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
				NA			(0.0 - 1.5') CONCRETE.		
				NA			(1.5 - 4.0') SAND, medium, subrounded to subangular; little small pebbles, subrounded; trace medium pebbles, subrounded; poorly sorted; dry; dark brown (10YR 2/2).		
	1	0.0-6.0	6.0	0.1					
				0.0					
5 / -5				0.0			(4.0 - 9.0') SAND, fine; some silt; well sorted; moist; light yellowish brown (2.5Y 4/4).		
				0.0					
				0.9			NOTE: Black sand (10YR 2/1) from 6.0 to 8.0' bgs; no odor.		
	2	6.0-10.0	4.0	0.0					
				0.0			NOTE: Wet at 8.0' bgs.	▼	
				0.0			(9.0 - 15.0') SAND, medium, subrounded; trace silt; well sorted; moist; grayish brown (10YR 5/2).		
10 / -10				0.0					
				0.0					
	3	10.0-15.0	5.0	0.1					
				0.9					
				1.1					
15 / -15							End of boring at 15.0' bgs.		

1.0-2.0 bgs (Native Sand)
0.5-4.0' bgs (2.0" Sch 40 PVC Well Casing)
2.0-3.0' bgs (Medium Bentonite Chips)
3.0-15.0' bgs (#1 Global Suppliers Filter Pack Sand)
4.0-14.0' bgs (2.0" Sch 40, 10-Slot PVC Well Screen)

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Remarks: bgs = below ground surface
btoc = below top of casing

Hand Auger to 6.0' bgs. Approximately 20 gallons of drilling water used.

MW-05-10 (2-4) collected at 1050
MW-05-10 (6-8) collected at 1055

Date Start: 1/31/2014
Date Finish: 1/31/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.0'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **MW-05-13**

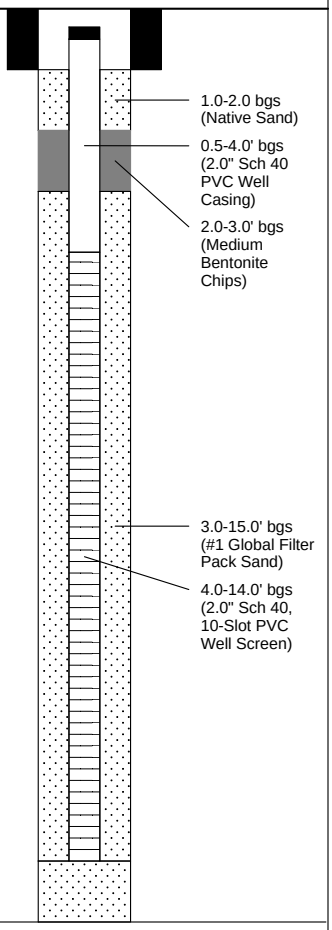
Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Overcast, 26 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0								
				NA			(0.0 - 1.0') CONCRETE.	
				0.1			(1.0 - 8.0') SAND, medium, subrounded to subangular; some small to medium pebbles, subrounded to subangular; poorly sorted; moist; dark brown (10YR 2/2).	
	1	0.0-6.0	6.0	0.0				
				0.0				
5 / -5				0.0				
				0.0				
				0.0				
	2	6.0-10.0	4.0	0.0				
				0.0			(8.0 - 10.0') SAND and SILT, fine; well sorted; moist; light brown (2.5Y 4/4).	
10 / -10				0.0				▼
				10.1			(10.0 - 15.0') SAND, medium, subrounded to subangular; well sorted; moist; grayish brown (10YR 5/2).	
				0.0			NOTE: Wet at 10.0' bgs.	
	3	10.0-15.0	5.0	0.0				
				0.1				
15 / -15				0.2			End of boring at 15.0' bgs.	

Well/Boring Construction



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Remarks: bgs = below ground surface
btoc = below top of casing

Hand Auger to 6.0' bgs. Approximately 20 gallons of drilling water used.

MW-05-13 (1-3) collected at 1150
MW-05-13 (8-10) collected at 1155

Date Start/Finish: 4/11/13-4/11/13
Drilling Company: Stearns Drilling
Driller's Name: Brian Marshall
Drilling Method: Sonic
Sampling Method: Hand Auger/ 4" Core Barrel
Rig Type: Mini Sonic

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 15.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **SB-05-01**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0 / 0								
				NA			(0.0-0.7') CONCRETE.	
				0.0			(0.7-3.0') SAND, fine to medium, subrounded; little silt; poorly sorted; moist; grayish brown (10YR 4/6). Note: Fill.	
	1	0.0-5.0	5.0	0.0				
				0.0			(3.0-3.5') CONCRETE.	
				0.0			(3.5-5.5') SAND, fine to medium, subrounded to subangular; some granules, subangular to angular; trace silt; poorly sorted; moist; dark yellowish brown (10YR 4/4).	
5 / -5				0.0				
				0.0			(5.5-9.0') CLAY, trace silt, high plasticity, slow dilatancy; and SAND, very fine, subrounded; trace granule, subrounded; poorly sorted; moist; medium stiff; brown (10YR 4/3).	
	2	5.0-10.0	5.0	0.0				
				0.0				
				0.0			(9.0-15.0') SAND, fine to medium, subrounded, well sorted; moist; dark yellowish brown (10YR 4/6). Note: Wet at 10.0' bgs. No PID values due to wet 5-gas meter. No odor present throughout boring.	
10 / -10								
	3	10.0-15.0	5.0					
15 / -15							End of boring at 15.0' bgs.	
20 / -20								

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Remarks: Hand Auger to 5.0' bgs.

Date Start/Finish: 4/11/13-4/11/13
Drilling Company: Stearns Drilling
Driller's Name: Brian Marshall
Drilling Method: Sonic
Sampling Method: Hand Auger/ 4" Core Barrel
Rig Type: Mini Sonic

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 15.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **SB-05-02**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0 / 0				NA			(0.0-1.0') CONCRETE.	
				0.1			(1.0-11.0') SAND, fine to medium, subrounded; well sorted; moist; dark yellowish brown (10YR 4/6).	
	1	0.0-5.0	5.0	0.2				
				0.4				
5 / -5				0.2				
				0.1				
				0.3				
	2	5.0-10.0	5.0	0.1				
				0.0				
10 / -10				0.0				
				0.1			Note: Wet at 10.0' bgs.	
				0.2			(11.0-13.0') SAND, fine to medium, subrounded; and CLAY, medium plasticity, slow dilatancy; trace small pebble, subrounded; poorly sorted; wet; brown (10YR 4/3).	
	3	10.0-15.0	5.0	0.1				
				0.5			(13.0-15.0') SAND, fine to medium, subrounded, well sorted; wet; dark grayish brown (10YR 4/2).	
15 / -15				1.6				
							End of borng at 15.0' bgs.	
20 / -20								

Remarks: Hand Auger to 5.0' bgs.

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Date Start/Finish: 4/11/13-4/11/13
Drilling Company: Stearns Drilling
Driller's Name: Brian Marshall
Drilling Method: Sonic
Sampling Method: Hand Auger/ 4" Core Barrel
Rig Type: Mini Sonic

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 20.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **SB-05-03**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0 / 0				NA			(0.0-1.0') CONCRETE.	
	1	0.0-5.0	5.0	0.0 0.0 0.0 0.0			(1.0-5.0') SAND, medium, subrounded; little silt; poorly sorted; moist; dark grayish brown (10YR 4/2).	
5 / -5	2	5.0-10.0	5.0	0.0 0.0 0.0 0.1 0.1			(5.0-9.0') SAND, fine to medium, subrounded; and CLAY, trace silt, medium plasticity, slow dilatancy; little granules, subangular; trace small pebbles, subrounded; poorly sorted; wet; dark grayish brown (10YR 4/2). Note: Wet at 8.0' bgs. (9.0-20.0') SAND, fine to medium, subrounded, well sorted; wet; dark yellowish brown (10YR 4/4).	
10 / -10				0.0 0.0 0.0 0.0				
15 / -15	3	10.0-20.0	8.0	0.0 0.0 0.0 0.0 0.3				
20 / -20							End of borng at 20.0' bgs.	

Remarks: Hand Auger to 5.0' bgs.

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Date Start: 9/3/13
Date Finish: 9/3/13
Drilling Company: Cascade
Driller's Name: Ralph Winn, Jason Greve
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 566343.83
Easting: 13305518.86
Casing Elevation: NA

Borehole Depth (ft. bgs.): 20.0' bgs
Surface Elevation: 754.39

Descriptions By: D.Shaw

Well/Boring ID: **SB-05-05**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny 75

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0				NA			CONCRETE.		(0.0-1.0') CONCRETE
	1	0.0-5.0	4.16	0.0			SAND, very fine to fine, round; trace granules to small pebbles, round; well sorted; dry; dark yellowish brown (10YR 4/4).		
				0.0					
				0.0					
5 / -5				0.0					
				0.5			CLAY, some silt, low plasticity, slow dilatency; some very fine sand, dry; soft; dark yellowish brown (10YR 4/4).		
				0.7					
				0.8			SAND, very fine to medium, round; well sorted; dry; dark yellowish brown (10YR 4/4).		
				0.6					(1.0-16.0') Bentonite
10 / -10				0.6					
	2	5.0-15.0	8.33	12.5			Note: Wet at 10.0' bgs. Slight odor at 10.0' bgs.	▽	
				5.7					
				0.3			Note: Transition to grayish brown (10YR 5/2).		
				0.0					
15 / -15				0.0					
				0.0					
							Note: End of boring at 16.0' bgs.		
20 / -20									

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Remarks: bgs = below ground surface
btoc = below top of casing
Hand auger to 5.0' bgs.
Backfilled with bentonite chips and finished with concrete to match surface.
SB-05-05(1-3) collected at 1115
SB-05-05(4-6) collected at 1120
SB-05-05(6-8) collected at 1125
SB-05-05(8-10) collected at 1130
SB-05-05(10-12) collected at 1135
SB-05-05(12-14) collected at 1140
SB-05-05(14-16) collected at 1145

Date Start: 2/06/2014
Date Finish: 2/06/2014
Drilling Company: Cascade
Driller's Name: John Roberts, James Vanconant
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 14.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **SB-05-05-04**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Snow, 8 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
				NA			(0.0 - 1.0') CONCRETE.		0.0-1.0' bgs. (CONCRETE)
	1	0.0-6.0	6.0	0.0 0.0 0.0 0.0 0.0			(1.0 - 14.0') SAND, medium, subrounded to subangular; some small to medium pebbles, subrounded to subangular; little large pebbles, subrounded; trace clay; poorly sorted; moist; dark brown (10YR 3/1). NOTE: FILL (brick, wood, metal fragments).		
5 / -5									
	2	6.0-10.0	4.0	0.0 0.0 0.0 0.0 0.0					1.0-14.0' bgs (Medium Bentonite Chips)
10 / -10									
	3	10.0-14.0	4.0	0.0 0.0 0.0 0.0 0.0			NOTE: Hit an obstruction at 14.0' bgs.		
15 / -15							End of boring at 14.0' bgs.		

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Remarks: bgs = below ground surface

Hand auger to 6.0' bgs.

Date Start: 9/3/13
Date Finish: 9/3/13
Drilling Company: Cascade
Driller's Name: Ralph Winn, Jason Greve
Drilling Method: Sonic
Sampling Method: 4" five foor core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 3.5' bgs
Water Level Finish (ft. btoc.): NA

Northing: 566343.95
Easting: 13305482.80
Casing Elevation: NA

Borehole Depth (ft. bgs.): 7.0' bgs
Surface Elevation: 754.45

Descriptions By: D.Shaw

Well/Boring ID: **SB-05-06**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny 75

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0				NA			CONCRETE.		(0.0-1.0') CONCRETE
				1.4			SAND, fine to medium, subround; trace very fine sand, well sorted; dry; black (10YR 2/1).		
	1	0.0-5.0	5.0	2.9			Note: Slight odor from 1.0 to 7.0' bgs.		
				0.6			Note: Wet at 3.5' bgs.		(1.0-6.0') Bentonite
5 -5				0.7					
	2	5.0-7.0	2.0	0.5					
				0.5			Note: Obstruction at 7.0' bgs, possibly concrete.		
							Note: End of boring at 7.0' bgs.		
10 -10									
15 -15									
20 -20									

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Remarks: bgs = below ground surface
btoc = below top of casing

Hand auger to 5.0' bgs.
Backfilled with bentonite chips and finished with concrete to match surface.
SB-05-06(1-3) collected at 1350
SB-05-06(3-5) collected at 1355
SB-05-06(5-7) collected at 1400

Date Start: 9/6/13
Date Finish: 9/6/13
Drilling Company: Cascade
Driller's Name: Ralph Winn, Jason Greve
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 5.5' bgs
Water Level Finish (ft. btoc.): NA

Northing: 565993.29
Easting: 13305603.15
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0' bgs
Surface Elevation: 750.68

Descriptions By: D.Shaw

Well/Boring ID: **SB-05-07**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny 75

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0							STONE FILL.		(0.0-1.0') CONCRETE
				1.0			SAND, fine to very coarse, subround to subangular; little granules to medium pebbles, subround; poorly sorted; dry; brown (10YR 4/3).		
				2.5					
	1	0.0-5.0	5.0	3.7			Note: Transition to black (10YR 2/1) and moderate odor at 2.5' bgs.		
				5.5					
5 / -5				4.9					
				3.0			Note: Wet at 5.5' bgs with strong odor and product.	▽	
				3.5					
				3.5			CLAY, trace silt, high plasticity, no dilatency; dry; stiff; dark yellowish brown (10YR 4/4).		(1.0-15.0') Bentonite
				2.5			Note: Mottled.		
				2.5			SAND, very fine to fine, round; well sorted; wet; dark grayish brown (10YR 4/2).		
10 / -10	2	5.0-15.0	10.0	1.0					
				1.0					
				0.5					
				0.0					
				0.0					
15 / -15							Note: End of boring at 15.0' bgs.		
20 / -20									

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Remarks: bgs = below ground surface
btoc = below top of casing

Hand auger to 5.0' bgs.
Backfilled with bentonite chips and finished with concrete to match surface.
SB-05-07(1-3) collected at 0940
SB-05-07(3-5) collected at 0945
SB-05-07(5-7) collected at 0950
SB-05-07(7-9) collected at 0955
SB-05-07(9-11) collected at 1000
SB-05-07(13-15) collected at 1010

Date Start: 9/6/2013
Date Finish: 9/6/2013
Drilling Company: Cascade
Driller's Name: Ralph Winn, Jason Greve
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 6.5' bgs
Water Level Finish (ft. btoc.): NA

Northing: 13305544.78
Easting: 565787.09
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0' bgs
Surface Elevation: 750.35

Descriptions By: D. Shaw

Well/Boring ID: **SB-05-08**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 75F

DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0	0				NA			(0.0 - 0.9') CONCRETE.		(0.0-0.9') CONCRETE
					1.0			(0.9 - 5.0') SAND, fine to medium, round; little coarse to very coarse, subround; trace granules to small pebbles; subround; poorly sorted; dry; black (10YR 2/1).		
		1	0.0-5.0	5.0	1.3			Note: Strong odor from 0.9 to 5.0' bgs.		
					1.4					
					1.6					
5	-5				1.5			(5.0 - 15.0') SAND, very fine to fine, well sorted; dry; black (10YR 2/1).		
					2.4			Note: Strong odor from 5.0 to 15.0' bgs. Note: Wet at 6.5' bgs.	▽	
					2.5					(0.9-15.0') Bentonite
					3.0					
					2.5					
10	-10	2	5.0-15.0	10.0	1.5					
					1.0			Note: Transition to dark grayish brown (10YR 4/2) and no odor at 11.5' bgs.		
					0.8			Note: Trace black (10YR 2/1) staining from 11.5 to 15.0' bgs.		
					1.0					
					1.0					
15	-15							Note: End of boring at 15.0' bgs.		
20	-20									

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Remarks: bgs = below ground surface

Hand auger to 5.0' bgs.

SB-05-08 (1-3) collected at 1050; SB-05-08 (5-7) collected at 1055; SB-05-08 (7-9) collected at 1100; SB-05-08 (9-11) collected at 1105; SB-05-08 (11-13) collected at 1110; SB-05-08 (13-15) collected at 1115.

Date Start: 9/3/2013
Date Finish: 9/3/2013
Drilling Company: Cascade
Driller's Name: Ralph Winn, Jason Greve
Drilling Method: Hand Auger
Sampling Method: Hand Auger
Rig Type: Hand Auger
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: 13305592.48
Easting: 565737.24
Casing Elevation: NA

Borehole Depth (ft. bgs.): 3.0' bgs.
Surface Elevation: 749.00

Descriptions By: D.Shaw

Well/Boring ID: **SB-05-09**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 75F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0							(0.0 - 0.6') STONE FILL.		(0.0-0.6') FILL
				NA			(0.6 - 3.0') SAND, very fine to medium, subround; wel sorted; dry; black (10YR 2/1).		
	1	0.0-3.0	1.5	4.5			Note: Moderate odor from 0.6 to 5.0' bgs.		(0.6-3.0') Bentonite
				7.3			Note: Obstruction at 3.0' bgs.		
5 / -5							Note: End of boring at 3.0' bgs.		
10 / -10									
15 / -15									

Remarks: bgs = below ground surface

Hand auger to 3.0' bgs.
SB-05-09 (1-3) collected at 1630.

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Date Start: 9/12/2013
Date Finish: 9/12/2013
Drilling Company: Cascade
Driller's Name: Ralph Winn, Dan O'Mara
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 12.5' bgs.
Water Level Finish (ft. btoc.): NA

Northing: 566567.664
Easting: 13305590.923
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0' bgs.
Surface Elevation: 753.21

Descriptions By: D.Shaw

Well/Boring ID: **SB-05-11**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 85F

DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0	0				0.0			(0.0 - 1.0') SAND, very fine to coarse, subround; little silt; little granules to small pebbles, subround; poorly sorted; dry; brown (10YR 4/3).		(0.0-1.0' bgs) FILL
					1.2			(1.0 - 10.0') SAND, fine to coarse, subround; well sorted; dry; black (10YR 2/1).		
		1	0.0-0.5	5.0	0.5					
					16.4			Note: Trace amounts of yellowish brown sand at 3.5' bgs.		
5	-5				0.5					
					0.5					
					1.2					
					1.1					(1.0-15.0' bgs) Bentonite
					1.0					
					0.5					
10	-10	2	0.5-15.0	8.0	1.5			(10.0 - 11.8') SAND, fine to coarse, subround; little granules to large pebbles, subround; poorly sorted; dry; black (10YR 2/1). Note: Debris and fill from 10.0 to 11.8' bgs.		
					1.4			(11.8 - 12.5') CLAY, high plasticity, no dilatency; dry; stiff; grayish brown.		
					1.0			(12.5 - 15.0') SAND, very fine to medium, subround; well sorted; wet grayish brown.		
					0.5					
15	-15				0.0			Note: End of boring at 15.0' bgs.		

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Remarks: bgs = below ground surface

Hand auger to 5.0' bgs.

Date Start: 9/12/2013
Date Finish: 9/12/2013
Drilling Company: Cascade
Driller's Name: Ralph Winn, Dan O'Mara
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 12.5' bgs.
Water Level Finish (ft. btoc.): NA

Northing: 566586.288
Easting: 13305590.155
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0' bgs.
Surface Elevation: 753.66

Descriptions By: D.Shaw

Well/Boring ID: SB-05-12

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 75F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0							(0.0 - 0.6') CONCRETE.		(0.0-0.6' bgs) CONCRETE
				1.0			(0.6 - 11.0') SAND, very fine to coarse, subround; trace granules to small pebbles, subround to subangular; dry; poorly sorted; brown (10YR 5/3).		
				1.0					
	1	0.0-5.0	5.0	1.0					
				1.0					
				0.8			Note: Transition to black (10YR 2/1) at 4.0' bgs.		
5 / -5				0.8					
				0.5					
				1.5					(0.6-15.0' bgs) Bentonite
				2.3					
				2.5					
10 / -10	2	5.0-15.0	10.0	1.5					
				0.5			(11.0 - 12.0') CLAY, high plasticity, no dilatency; moist; medium stiff; grayish brown.		
				0.2			(12.0 - 15.0') SAND, very fine to fine, subround; well sorted; wet; grayish brown.		
				0.0					
15 / -15				0.0					
							Note: End of boring at 15.0' bgs.		
20 / -20									

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Remarks: bgs = below ground surface

Hand auger to 5.0' bgs.

Date Start: 9/3/2013
Date Finish: 9/3/2013
Drilling Company: Cascade
Driller's Name: Ralph Winn, Jason Greve
Drilling Method: Hand Auger
Sampling Method: Hand Auger
Rig Type: Hand Auger
Water Level Start (ft. bgs.): 2.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 565858.866
Easting: 13305582.077
Casing Elevation: NA

Borehole Depth (ft. bgs.): 5.5' bgs.
Surface Elevation: 754.21

Descriptions By: D.Shaw

Well/Boring ID: **SB-05-14**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 75F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0				NA			(0.0 - 0.9') CONCRETE.		(0.0-0.9' bgs) CONCRETE
				1.0			(0.9 - 5.5') SAND, fine to medium, subround; trace silt; well sorted; dry; brown (10YR 3/3).		
	1	0.0-5.5	5.5	1.0			Note: Wet at 2.0' bgs.		(0.9-5.5' bgs) Bentonite
5 / -5				0.9					
				0.9			Note: Obstruction at 5.5' bgs.		
							Note: End of boring at 5.5' bgs.		
10 / -10									
15 / -15									
20 / -20									

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Remarks: bgs = below ground surface

Hand auger to 5.5' bgs.
SB-05-14 (1-3) collected at 1450.
SB-05-14 (3-5) collected at 1500.

Date Start: 1/16/2014
Date Finish: 1/16/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 8.0'
Water Level Finish (ft. btoc.): NA

Northing: 565772.959
Easting: 13305562.283
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: 750.154

Descriptions By: A. DeGrandis

Well/Boring ID: **SB-DH-RW-03-08**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Snow, 15F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
				NA			(0.0 - 1.0') GRAVEL.		0.0-1.0' bgs Gravel Backfill
				6.2			(1.0 - 10.0') SAND, medium, little medium pebbles, subrounded; trace large pebbles, subrounded; poorly sorted; dry; dark brown (10YR 3/2).		
	1	0.0-6.0	6.0	7.8					
				232.1					
				50.1					
5 / -5				28.6					
				0.0			NOTE: Staining and mild odor from 6.0 to 8.5' bgs.		
				0.0					
	2	6.0-10.0	4.0				NOTE: Wet at 8.0' bgs.		1.0-15.0' bgs Bentonite
				0.0					
				28.7					
10 / -10				0.0			(10.0 - 15.0') SAND, fine, subrounded; well sorted; moist; dark grayish brown (2.5Y 6/2).		
				0.0					
	3	10.0-15.0	5.0	0.0					
				0.0					
				0.0					
15 / -15							NOTEL: End of boring at 15.0' bgs.		

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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs

SB-DH-RW-03-08 (5-7) collected at 1355
SB-DH-RW-03-08 (9-11) collected at 1400
SB-DH-RW-03-08 (11-13) collected at 1405

Date Start: 1/16/2014
Date Finish: 1/16/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.0'
Water Level Finish (ft. btoc.): 12.5'

Northing: 565779.086
Easting: 13305567.201
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: 750.112

Descriptions By: A. DeGrandis

Well/Boring ID: **SB-DH-RW-03-09**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Snow, 17F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
	1	0.0-6.0	6.0	0.0 0.0 48.2 85.9 85.3 91.4			(0.0 - 3.0') SAND, medium, subangular to subrounded; little medium pebbles, angular; trace clay; poorly sorted; dry; dark yellowish brown (10YR4/8). NOTE: Transition to black (10YR 2/1) at 2.0' bgs. Strong odor from 2.0 to 3.0' bgs. SLAG. (3.0 - 4.0') SAND, fine, some silt, little small pebbles, subrounded to subangular; poorly sorted; moist; black (10YR 2/1). NOTE: Strong odor. (4.0 - 6.5') SAND, fine, some silt, little small pebbles, subrounded to subangular; poorly sorted; moist; black (10YR 2/1).		0.0-1.0' bgs FILL
5 / -5									
	2	6.0-10.0	4.0	10.8 42.6 41.5 35.1			(6.5 - 10.0') SAND, fine, subrounded to subangular; little silt; well sorted; moist; dark brownish gray (10YR 3/1).		1.0-15.0' bgs Bentonite
10 / -10								▼	
	3	10.0-15.0	5.0	14.7 48.6 30.1 25.9 5.9			(10.0 - 15.0') SAND, fine, subrounded; well sorted; moist; brown (10YR 4/8). NOTE: Wet from 10.0 to 12.5' bgs.		
15 / -15							NOTE: End of boring at 15.0' bgs.		

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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs

SB-DH-RW-03-09 (5-7) collected at 1430
SB-DH-RW-03-09 (9-11) collected at 1435
SB-DH-RW-03-09 (13-15) collected at 1440

Date Start: 1/16/2014
Date Finish: 1/16/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.0'
Water Level Finish (ft. btoc.): NA

Northing: 565773.277
Easting: 13305572.275
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: 750.263

Descriptions By: A. DeGrandis

Well/Boring ID: **SB-DH-RW-03-10**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Snow, 17F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
				NA			(0.0 - 1.0') GRAVEL.		0.0-1.0' bgs Gravel Backfill
				4.3			(1.0 - 4.0') SAND, medium, little medium pebbles, subrounded; trace large pebbles, subrounded; poorly sorted; dry; brown (10YR 4/4).		
				4.6					
	1	0.0-6.0	6.0	32.5			NOTE: Transition to black (10YR 2/1) at 3.0' bgs. Staining and mild odor from 4.0 to 10.0' bgs.		
				79.2			(4.0 - 6.0') SAND, medium, subrounded to subangular; little medium pebbles, subrounded; trace clay; poorly sorted; moist; dark brown/black (10YR 2/1).		
5 / -5				69.8					
				8.0			(6.0 - 10.0') SAND, fine, subrounded to subangular; trace silt; trace medium pebbles; well sorted; moist; dark brownish black (10YR 2/1).		1.0-15.0' bgs Bentonite
	2	6.0-10.0	2.5	17.6					
				26.5					
				27.9					
10 / -10								▼	
				NA			(10.0 - 11.0') GRAVEL.		
							NOTE: Wet at 10.0' bgs.		
				26.8			(11.0 - 15.0') SAND, fine, subrounded; trace silt; well sorted; moist; grayish brown (2.5Y 4/2).		
	3	10.0-15.0	4.3	34.6					
				102.3					
				21.3					
15 / -15									
							NOTE: End of boring at 15.0' bgs.		

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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs

SB-DH-RW-03-10 (5-7) collected at 1520
SB-DH-RW-03-10 (9-10) collected at 1525
SB-DH-RW-03-10 (13-15) collected at 1530

Date Start: 1/16/2014
Date Finish: 1/16/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 7.5'
Water Level Finish (ft. btoc.): NA

Northing: 565768.585
Easting: 13305567.447
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: 750.323

Descriptions By: A. DeGrandis

Well/Boring ID: **SB-DH-RW-03-11**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Snow, 15F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			(0.0 - 1.0') GRAVEL.		0.0-1.0' bgs Gravel Backfill
				13.2			(1.0 - 6.0') SAND, medium, subrounded to subangular; little small pebbles, subrounded; trace medium pebbles, subrounded; poorly sorted; dry; yellowish brown (10YR 4/3).		
	1	0.0-6.0	6.0	0.0					
				93.7			NOTE: Transition to black (10YR 2/1) at 3.0' bgs. Staining and mild odor from 3.0 to 12.5' bgs.		
5 / -5				90.5					
				87.2					
				24.6			(6.0 - 12.5') SAND, fine, subrounded to subangular; trace medium pebbles, subrounded; trace small pebbles, subrounded; well sorted; moist; dark brownish black (10YR 2/1).		
	2	6.0-10.0	2.5	10.3			NOTE: Wet at 7.5' bgs.	▼	1.0-15.0' bgs Bentonite
				15.2					
10 / -10				19.6					
				11.7					
				74.2					
	3	10.0-15.0	4.7	13.8			(12.5 - 15.0') SAND, fine, subrounded to subangular; trace silt; well sorted; moist to wet; brownish gray (2.5Y 4/2).		
				15.2					
15 / -15				17.0					
							NOTE: End of boring at 15.0' bgs.		

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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs

SB-DH-RW-03-11 (5-7) collected at 1600
SB-DH-RW-03-11 (9-11) collected at 1605
SB-DH-RW-03-11 (13-15) collected at 1610

Date Start: 1/17/2014
Date Finish: 1/17/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.0'
Water Level Finish (ft. btoc.): NA

Northing: 565774.893
Easting: 13305584.078
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: 750.532

Descriptions By: A. Richmond

Well/Boring ID: **SB-DH-RW-03-12**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 21F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			(0.0 - 1.0') GRAVEL.		0.0-1.0' bgs Gravel Backfill
				0.2			(1.0 - 7.0') SAND, medium, little small pebbles, subrounded to subangular; poorly sorted; moist; dark yellowish brown (10YR 4/6).		
	1	0.0-6.0	6.0	0.2					
				0.4			NOTE: Transition to dark olive brown (2.5Y 3/3) at 3.0' bgs. Little odor from 3.0 to 6.0' bgs.		
				0.7					
5 / -5				0.9					
				0.3					
	2	6.0-10.0	4.0	0.4			(7.0 - 10.0') SAND, fine, little silt; trace clay; poorly sorted; moist; very dark gray (2.5Y 3/1).		1.0-15.0' bgs Bentonite
				0.5					
				1.6					
10 / -10				0.7			(10.0 - 15.0') SAND, medium to coarse, trace granules, subrounded to subangular; well sorted; wet; olive brown (2.5Y 4/6).	▼	
				0.3			NOTE: Wet at 10.0' bgs. Wood debris from 9.0 to 10.0' bgs (strong pine scent).		
	3	10.0-15.0	5.0	0.1			NOTE: Staining and little odor from 10.0 to 11.0' bgs.		
				0.1			NOTE: Dry from 12.5 to 15.0' bgs.		
				0.0					
15 / -15							NOTE: End of boring at 15.0' bgs.		

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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs

SB-DH-RW-03-12 (5-7) collected at 0945
SB-DH-RW-03-12 (9-11) collected at 0950
SB-DH-RW-03-12 (11-13) collected at 0955

Date Start: 1/17/2014
Date Finish: 1/17/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.0'
Water Level Finish (ft. btoc.): NA

Northing: 13305579.962
Easting: 13305579.962
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: 750.404

Descriptions By: A. Richmond

Well/Boring ID: **SB-DH-RW-03-13**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 21F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
				0.2			(0.0 - 1.0') GRAVEL.		0.0-1.0' bgs Gravel Backfill
				1.6			(1.0 - 7.0') SAND, medium, little small pebbles, subrounded to subangular; poorly sorted; moist; dark yellowish brown (10YR 4/6).		
	1	0.0-6.0	6.0	0.3					
				0.6			NOTE: Transition to dark olive brown (2.5Y 3/3) at 3.0' bgs. Little odor from 3.0 to 6.0' bgs.		
				1.0					
5 / -5				37.1					
				0.4					
				0.4			(7.0 - 10.0') SAND, fine, little silt; trace clay; poorly sorted; moist; very dark gray (2.5Y 3/1).		1.0-15.0' bgs Bentonite
	2	6.0-10.0	4.0	0.4					
				0.4					
10 / -10				0.5			(10.0 - 15.0') SAND, medium to coarse, trace granules, subrounded to subangular; well sorted; wet; olive brown (2.5Y 4/6).	▼	
				0.6			NOTE: Wet at 10.0' bgs. Wood debris (strong pine scent) and SLAG from 9.0 to 10.0' bgs.		
	3	10.0-15.0	5.0	0.5			NOTE: Black staining from 9.5 to 12.0' bgs. Little odor from 10.0 to 11.0' bgs.		
				0.1			NOTE: Dry from 12.5 to 15.0' bgs.		
15 / -15				0.1					
							NOTE: End of boring at 15.0' bgs.		

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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs

SB-DH-RW-03-13 (5-7) collected at 1030
SB-DH-RW-03-13 (9-11) collected at 1035
SB-DH-RW-03-13 (13-15) collected at 1040

Date Start: 2/06/2014
Date Finish: 2/06/2014
Drilling Company: Cascade
Driller's Name: John Roberts, James Vanconant
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.0'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **SB-DH-RW-03-15**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Clear, 7 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			(0.0 - 1.0') GRAVEL.		0.0-1.0' bgs Gravel Backfill
				0.1			(1.0 - 7.0') SAND, medium, little small pebbles, subrounded to subangular; poorly sorted; moist; dark yellowish brown (10YR 4/6).		
	1	0.0-6.0	6.0	0.0					
				3.0			NOTE: Transition to black (10YR 2/1) at 3.0' bgs. Moderate odor and staining from 3.0 to 6.5' bgs.		
				1.9					
5 / -5				1.2					
				0.9					
	2	6.0-10.0	4.0	0.7			(7.0 - 10.0') SAND, fine, little silt; trace clay; poorly sorted; moist; very dark gray (2.5Y 3/1).		1.0-15.0' bgs Bentonite
				0.3					
				0.2					
10 / -10				0.2			(10.0 - 15.0') SAND, medium to coarse, trace granules, subrounded to subangular; well sorted; wet; olive brown (2.5Y 4/6).	▼	
				0.2			NOTE: Wet at 10.0' bgs.		
	3	10.0-15.0	5.0	0.1					
				0.1					
15 / -15				0.0					
							End of boring at 15.0' bgs.		

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Remarks: bgs = below ground surface

Hand auger to 6.0' bgs.

SB-DH-RW-03-15 (7-9) collected at 0940
SB-DH-RW-03-15 (9-11) collected at 0945
SB-DH-RW-03-15 (11-14) collected at 0950

Date Start: 2/06/2014
Date Finish: 2/06/2014
Drilling Company: Cascade
Driller's Name: John Roberts, James Vanconant
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 8.5'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **SB-DH-RW-03-16**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Snow, 7 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
	1	0.0-6.0	6.0	0.9 1.0 0.7 0.8 0.4 0.9			(0.0 - 0.2') GRAVEL. (0.2 - 7.0') SAND, medium, little small pebbles, subrounded to subangular; poorly sorted; moist; dark yellowish brown (10YR 4/6). NOTE: Transition to dark gray (2.5Y 3/1) at 3.0' bgs. Moderate odor and staining from 3.0 to 8.0' bgs.		0.0-1.0' bgs Gravel Backfill
5 / -5									
	2	6.0-10.0	4.0	1.0 0.9 0.9 0.8			(7.0 - 10.0') SAND, fine, little silt; trace clay; poorly sorted; moist; very dark gray (2.5Y 3/1). NOTE: Wet at 8.5' bgs.	▼	1.0-15.0' bgs Bentonite
10 / -10									
	3	10.0-15.0	5.0	0.0 0.0 0.0 0.0 0.0			(10.0 - 15.0') SAND, medium to coarse, trace granules, subrounded to subangular; well sorted; wet; olive brown (2.5Y 4/6).		
15 / -15							End of boring at 15.0' bgs.		

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Remarks: bgs = below ground surface

Hand auger to 6.0' bgs.

SB-DH-RW-03-16 (7-9) collected at 1000
SB-DH-RW-03-16 (9-11) collected at 1005
SB-DH-RW-03-16 (11-14) collected at 1010

Date Start: 2/06/2014
Date Finish: 2/06/2014
Drilling Company: Cascade
Driller's Name: John Roberts, James Vanconant
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 12.5'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 20.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **TW-05-05-03**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Snow, 8 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			(0.0 - 1.0') CONCRETE.		0.0-1.0' bgs (Native Sand Backfill)
	1	0.0-6.0	6.0	0.0			(1.0 - 11.5') SAND, medium, subrounded to subangular; little small pebbles, subrounded; trace medium pebbles, subrounded; trace silt; trace clay; poorly sorted; moist; light golden brown (10YR 5/6).		+2.0-8.0' bgs (2.0" PVC Casing)
				0.0					
				0.0					1.0-7.0' bgs (Medium Bentonite Chips)
5 / -5				0.0					
	2	6.0-10.0	4.0	0.0					
				0.0					
10 / -10				1.4					
	3	10.0-15.0	5.0	7.0			(11.5 - 20.0') SAND, fine; well sorted; moist to wet; light gray (2.5Y 5/2).	▼	7.0-20.0' bgs (#1 Global Filter Pack Sand)
				6.4			NOTE: Wet at 12.5' bgs.		
				11.0			NOTE: Strong odor and staining from 11.5 to 14.5' bgs.		8.0-18.0' bgs (2.0" 10-Slot Sch. 40 Well Screen)
				7.8					
15 / -15				0.0			NOTE: Transition to brown (2.5Y 4/4) at 15.0' bgs.		
				0.0					

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Remarks: btoc = below top of casing.
bgs = below ground surface.

Hand auger to 6.0' bgs.

Approximately 25 gallons of drilling water used.

Date Start: 2/06/2014
Date Finish: 2/06/2014
Drilling Company: Cascade
Driller's Name: John Roberts, James Vanconant
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 12.5'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 20.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **TW-05-05-03**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Snow, 8 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
	4	15.0-20.0	5.0	0.0 0.0 0.0			SAND, fine; well sorted; moist to wet; light gray (2.5Y 5/2).		
20 -20							End of boring at 20.0' bgs.		
25 -25									
30 -30									
35 -35									

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Remarks: btoc = below top of casing.
bgs = below ground surface.

Hand auger to 6.0' bgs.

Approximately 25 gallons of drilling water used.

Date Start: 2/06/2014
Date Finish: 2/06/2014
Drilling Company: Cascade
Driller's Name: John Roberts, James Vanconant
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 13.5'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 20.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **TW-05-05-05**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Snow, 8 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0								
				NA			(0.0 - 1.0') CONCRETE.	
				0.1			(1.0 - 8.0') SAND, fine; some small pebbles, subrounded to subangular; little silt; trace medium pebbles, subrounded to subangular; trace clay; poorly sorted; moist; dark brown (10YR 3/2).	
				0.0			NOTE: FILL.	
	1	0.0-6.0	6.0	5.3			NOTE: Moderate odor from 3.0 to 8.0' bgs.	
				4.4				
5 / -5				2.2				
				0.0				
				2.7				
	2	6.0-10.0	4.0	1.2			(8.0 - 9.5') SAND and SILT, fine; trace clay; well sorted; moist; dark brownish gray (2.5Y 5/2).	
				9.0			(9.5 - 20.0') SAND, fine; well sorted; moist; brownish gray (2.5Y 5/2).	
10 / -10				10.1				
				20.1			NOTE: Strong odor and black staining from 11.0 to 16.5' bgs.	
	3	10.0-15.0	5.0	20.9				
				53.9			NOTE: Wet at 13.5' bgs.	▼
				27.4				
15 / -15				16.1				
				3.5				

Well/Boring Construction

- 0.0-1.0' bgs (Native Sand Backfill)
- +2.0-8.0' bgs (2.0" PVC Casing)
- 1.0-7.0' bgs (Medium Bentonite Chips)
- 7.0-20.0' bgs (#1 Global Filter Pack Sand)
- 8.0-18.0' bgs (2.0" 10-Slot Sch. 40 Well Screen)

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Remarks: btoc = below top of casing.
bgs = below ground surface.

Hand auger to 6.0' bgs.

Approximately 25 gallons of drilling water used.

Date Start: 2/06/2014
Date Finish: 2/06/2014
Drilling Company: Cascade
Driller's Name: John Roberts, James Vanconant
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 13.5'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 20.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **TW-05-05-05**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Snow, 8 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
	4	15.0-20.0	5.0	1.6 0.5 0.3			SAND, fine; well sorted; moist; brownish gray (2.5Y 5/2).		
20 -20							End of boring at 20.0' bgs.		
25 -25									
30 -30									
35 -35									

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Remarks: btoc = below top of casing.
bgs = below ground surface.

Hand auger to 6.0' bgs.

Approximately 25 gallons of drilling water used.

Date Start: 2/06/2014
Date Finish: 2/06/2014
Drilling Company: Cascade
Driller's Name: John Roberts, James Vanconant
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 8.0'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **TW-43-165-08**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Snow, 7 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0							(0.0 - 1.0') GRAVEL.		0.0-1.0' bgs (Native Sand Backfill)
				NA			(1.0 - 2.0') SAND, medium, subrounded to subangular; some small pebbles, subangular; trace medium pebbles, subangular; poorly sorted; dry; yellowish brown (2.5Y 4/4).		+2.0-4.0' bgs (2.0" PVC Casing)
	1	0.0-6.0	6.0	NA			(2.0 - 7.5') SAND, medium, subrounded to subangular; some small to medium pebbles, subrounded to subangular; some silt; little clay; poorly sorted; moist; black (10YR 2/1).		1.0-3.0 bgs (Medium Bentonite Chips)
5 / -5				NA			NOTE: Mild odor and staining from 5.0 to 7.5' bgs.		
							NOTE: Transition to olive brown (2.5Y 4/2) at 6.0' bgs.		
				NA			(7.5 - 8.0') CLAY and SILT, low plasticity, slow dilatancy; stiff; moist; greenish gray (5Y 3/2).		
	2	6.0-10.0	4.0				(8.0 - 11.5') SAND, fine; some small to medium pebbles, subrounded to subangular; trace silt; poorly sorted; wet; dark brownish gray (2.5Y 3/1).		3.0-15.0' bgs (#1 Global Filter Pack Sand)
				NA			NOTE: Wet at 8.0' bgs. Staining and mild odor from 8.0 to 11.5' bgs.		4.0-14.0' bgs (2.0" 10-Slot Sch. 40 Well Screen)
10 / -10							NOTE: Debris (nails, slag) from 8.0 to 10.0' bgs.		
				NA			(11.5 - 15.0') SAND, medium, subrounded to subangular; well sorted; moist to wet; brown (10YR 4/2).		
	3	10.0-15.0	5.0	NA					
15 / -15				NA			End of boring at 15.0' bgs.		

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Remarks: btoc = below top of casing.
bgs = below ground surface.

Hand auger to 6.0' bgs. Approximately 25 gallons of drilling water used.

NOTE: Could not get accurate PID readings due to malfunctioning equipment.

Date Start: 2/06/2014
Date Finish: 2/06/2014
Drilling Company: Cascade
Driller's Name: John Roberts, James Vanconant
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 12.5'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 20.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

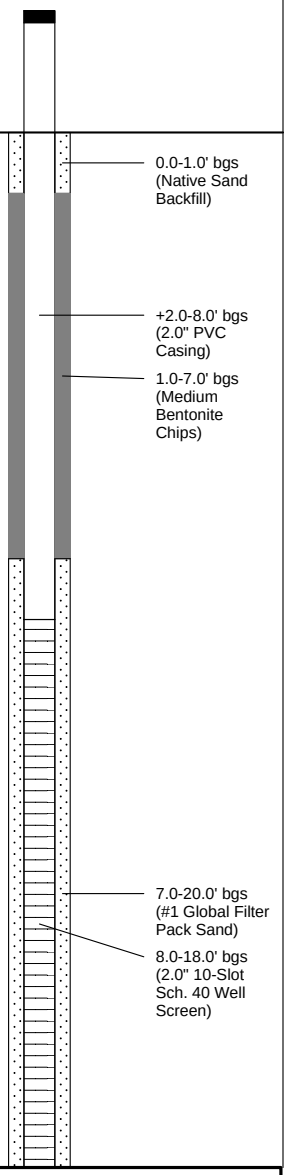
Well/Boring ID: **TW-43-165-09**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Overcast, 7 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0				NA			(0.0 - 1.0') CONCRETE.	
				0.0			(1.0 - 5.0') SAND, medium, subrounded to subangular; little small pebbles, trace medium pebbles, subrounded; poorly sorted; dry; light brown (10YR 5/4).	
	1	0.0-6.0	6.0	0.0				
				0.0			NOTE: Transition to black (10YR 2/1) at 4.0' bgs.	
5 / -5				0.0			(5.0 - 8.5') SAND, fine; some small to medium pebbles, subrounded to subangular; some silt; trace clay; poorly soorted; moist; dark yellowish brown (10YR 4/3).	
	2	6.0-10.0	4.0	0.0				
				0.0			(8.5 - 11.0') SAND and SILT, fine; some small to medium pebbles, subrounded to subangular; trace clay; poorly sorted; moist; dark brown (10YR 3/1).	
10 / -10				0.0			NOTE: Fill debris (glass fragments, nails) from 8.5 to 11.0' bgs.	
				0.0			(11.0 - 14.5') CLAY and SILT, high plasticity, slow dilatancy; little medium pebbles, subrounded; soft; moist to wet; dark gray (2.5Y 3/1).	
	3	10.0-15.0	5.0	0.0			NOTE: Wet at 12.5' bgs.	▼
				0.0				
15 / -15				0.0			(14.5 - 20.0') SAND, medium, subrounded to subangular; well sorted; wet; light grayish brown (2.5Y 4/3).	
				0.0				



Well/Boring Construction

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Remarks: btoc = below top of casing.
bgs = below ground surface.

Hand auger to 6.0' bgs. Approximately 25 gallons of drilling water used.

Date Start: 2/06/2014
Date Finish: 2/06/2014
Drilling Company: Cascade
Driller's Name: John Roberts, James Vanconant
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 12.5'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 20.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **TW-43-165-09**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Overcast, 7 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
	4	15.0-20.0	5.0	0.0 0.0 0.0			SAND, medium, subrounded to subangular; well sorted; wet; light grayish brown (2.5Y 4/3).		
20 -20							End of boring at 20.0' bgs.		
25 -25									
30 -30									
35 -35									

Remarks: btoc = below top of casing.
bgs = below ground surface.

Hand auger to 6.0' bgs. Approximately 25 gallons of drilling water used.

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Date Start: 1/13/2014
Date Finish: 1/13/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 7.5' bgs
Water Level Finish (ft. btoc.): NA

Northing: 565983.117
Easting: 13305591.528
Casing Elevation: 752.608

Borehole Depth (ft. bgs.): 15.0' bgs
Surface Elevation: 750.729

Descriptions By: Adam Richmond

Well/Boring ID: **TW-DH-RW-01-01**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 34F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			(0.0 - 2.0') PEBBLE, very large, angular; poorly sorted; dry; gray (10YR 4/1).		0.0-1.0' bgs (Native Sand)
				NA			NOTE: FILL.		+2.0-5.0' bgs (2.0" PVC Casing)
				1.1			(2.0 - 3.0') PEBBLE, medium, angular; little sand, very coarse, angular; trace silt; poorly sorted; wet; very dark grayish brown (2.5Y 3/2).		1.0-4.0' bgs (Pure Gold Medium Bentonite Chips)
	1	0.0-6.0	6.0	1.8			NOTE: FILL. Most likely wet due to SLAG (brick, metal, glass fragments) forming perched water.		
				1.0			(3.0 - 12.0') SAND, fine, little granules, subrounded to subangular; trace small pebbles, subrounded to subangular; little silt; poorly sorted; moist; light olive brown (2.5Y 5/4).		
5 / -5				1.1			NOTE: Slight odor from 3.0 to 12.0' bgs.		
				0.8					
	2	6.0-10.0	4.0	0.9			NOTE: Wet at 7.5' bgs.	▼	
				1.2					4.0-15.0' bgs (#1 Global Drilling Suppliers Filter Pack Sand)
10 / -10				0.9					5.0-15.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
	3	10.0-15.0	4.6	1.1			(12.0 - 15.0') SAND, medium, well sorted; moist; light olive brown (2.5Y 5/3).		
15 / -15				0.5			NOTE: End of boring at 15.0' bgs.		

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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs

TW-DH-RW-01-01 (5-7) collected at 0915
TW-DH-RW-01-01 (9-11) collected at 0920
TW-DH-RW-01-01 (13-15) collected at 0925

Date Start: 1/13/2014
Date Finish: 1/13/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 565991.676
Easting: 13305592.703
Casing Elevation: 752.512

Borehole Depth (ft. bgs.): 15.0' bgs
Surface Elevation: 750.653

Descriptions By: Adam Richmond

Well/Boring ID: **TW-DH-RW-01-02**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 35F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			(0.0 - 2.0') GRAVEL.		0.0-1.0' bgs (Native Sand)
				NA					+2.0-5.0' bgs (2.0" PVC Casing)
				3.7			(2.0 - 3.0') PEBBLE, medium, angular; little sand, very coarse, angular; trace silt; poorly sorted; wet; very dark grayish brown (2.5Y 3/2).		1.0-4.0' bgs ' (Pure Gold Medium Bentonite Chips)
	1	0.0-6.0	6.0	3.9			NOTE: FILL. Most likely wet due to SLAG (brick, metal, glass fragments) forming perched water.		
				6.0			(3.0 - 8.0') SAND, fine, little granules, subrounded to subangular; trace small pebbles, subrounded to subangular; little silt; poorly sorted; moist; light olive brown (2.5Y 5/4).		
5 / -5				4.2			NOTE: Slight odor from 3.0 to 8.0' bgs.		
				3.1					
				3.7			(8.0 - 8.5') CLAY, medium plasticity, no dilatancy; stiff; dry; olive brown (2.5Y 4/6). NOTE: Gray (10YR 2/1) mottling.		
	2	6.0-10.0	4.0	3.7			(8.5 - 12.0') SAND, fine, little granules, subrounded to subangular; trace small pebbles, subrounded to subangular; little silt; poorly sorted; moist; light olive brown (2.5Y 5/4).		4.0-15.0' bgs (#1 Global Drilling Suppliers Filter Pack Sand)
				6.4					
10 / -10				1.2			NOTE: Wet at 10.0' bgs.	▼	5.0-15.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
				0.6					
	3	10.0-15.0	4.6	0.5			(12.0 - 15.0') SAND, medium; well sorted; moist; light olive brown (2.5Y 5/3).		
				0.6					
15 / -15							NOTE: End of boring at 15.0' bgs.		

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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs. Approximately 25 gallons of drilling water used.

TW-DH-RW-01-02 (5-7) collected at 1040
TW-DH-RW-01-02 (9-11) collected at 1045
TW-DH-RW-01-02 (13-15) collected at 1050

Date Start: 1/13/2014
Date Finish: 1/13/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 9.5' bgs
Water Level Finish (ft. btoc.): NA

Northing: 565992.854
Easting: 13305604.769
Casing Elevation: 752.921

Borehole Depth (ft. bgs.): 15.0' bgs
Surface Elevation: 750.942

Descriptions By: Adam Richmond

Well/Boring ID: **TW-DH-RW-01-03**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 41F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			(0.0 - 1.0') GRAVEL.		0.0-1.0' bgs (Native Sand)
				2.0			(1.0 - 3.0') PEBBLE, medium, angular; little sand, very coarse, angular; trace silt; poorly sorted; wet; very dark grayish brown (2.5Y 3/2).		+2.0-5.0' bgs (2.0" PVC Casing)
				11.7			NOTE: FILL. Most likely wet due to SLAG (brick, metal, glass fragments) forming perched water.		
	1	0.0-6.0	6.0	11.6			(3.0 - 8.0') SAND, fine, little granules, subrounded to subangular; trace small pebbles, subrounded to subangular; little silt; poorly sorted; moist; light olive brown (2.5Y 5/4).		1.0-4.0' bgs (Pure Gold Medium Bentonite Chips)
				2.2					
5 / -5				2.0			NOTE: Slight odor from 3.0 to 8.0' bgs.		
				2.2					
	2	6.0-10.0	2.9	2.0			(8.0 - 8.3') CLAY, medium plasticity, no dilatancy; stiff; dry; olive brown (2.5Y 4/6). NOTE: Gray (10YR 2/1) mottling.		
				3.4			(8.3 - 12.0') SAND, fine, little granules, subrounded to subangular; trace small pebbles, subrounded to subangular; little silt; poorly sorted; moist; light olive brown (2.5Y 5/4).		4.0-15.0' bgs (#1 Global Drilling Suppliers Filter Pack Sand)
				3.7			NOTE: Wet at 9.5' bgs.	▼	
10 / -10				1.2					5.0-15.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
	3	10.0-15.0	3.9	1.1			(12.0 - 15.0') SAND, medium; well sorted; moist; light olive brown (2.5Y 5/3).		
				1.0					
15 / -15							NOTE: End of boring at 15.0' bgs.		

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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs. Approximately 25 gallons of drilling water used.

TW-DH-RW-01-03 (5-7) collected at 1250
TW-DH-RW-01-03 (9-11) collected at 1255
TW-DH-RW-01-03 (13-15) collected at 1300

Date Start: 1/13/2014
Date Finish: 1/13/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 9.5' bgs
Water Level Finish (ft. btoc.): NA

Northing: 565982.442
Easting: 13305605.083
Casing Elevation: 752.479

Borehole Depth (ft. bgs.): 15.0' bgs
Surface Elevation: 750.72

Descriptions By: Adam Richmond

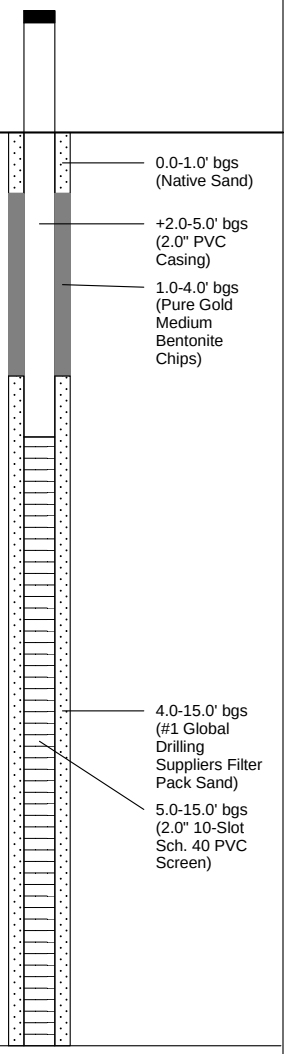
Well/Boring ID: **TW-DH-RW-01-04**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 41F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0				NA			(0.0 - 1.0') GRAVEL.	
				3.5			(1.0 - 3.0') PEBBLE, medium, angular; little sand, very coarse, angular; trace silt; poorly sorted; wet; very dark grayish brown (2.5Y 3/2).	
				2.7			NOTE: FILL. Most likely wet due to SLAG (brick, metal, glass fragments) forming perched water.	
	1	0.0-6.0	6.0	1.6			(3.0 - 7.0') SAND, fine, little granules, subrounded to subangular; trace small pebbles, subrounded to subangular; little silt; poorly sorted; moist; light olive brown (2.5Y 5/4).	
				1.8				
5 / -5				3.4			NOTE: Slight odor from 3.0 to 7.0' bgs.	
				1.2			(7.0 - 7.5') CLAY, medium plasticity, no dilatancy; stiff; dry; olive brown (2.5Y 4/6). NOTE: Gray (10YR 2/1) mottling.	
	2	6.0-10.0	3.5	2.1			(7.5 - 12.0') SAND, fine, little granules, subrounded to subangular; trace small pebbles, subrounded to subangular; little silt; poorly sorted; moist; light olive brown (2.5Y 5/4).	
				3.4				
				3.6			NOTE: Wet at 9.5' bgs.	▼
10 / -10				2.2				
				1.4				
	3	10.0-15.0	4.3	1.8			(12.0 - 15.0') SAND, medium; well sorted; moist; light olive brown (2.5Y 5/3).	
				0.8				
15 / -15				0.8			NOTE: End of boring at 15.0' bgs.	



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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs. Approximately 25 gallons of drilling water used.

TW-DH-RW-01-04 (5-7) collected at 1455
TW-DH-RW-01-04 (9-11) collected at 1500
TW-DH-RW-01-04 (13-15) collected at 1505

Date Start: 1/13/2014
Date Finish: 1/13/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 565965.547
Easting: 13305592.33
Casing Elevation: 752.518

Borehole Depth (ft. bgs.): 15.0' bgs
Surface Elevation: 750.829

Descriptions By: Adam Richmond

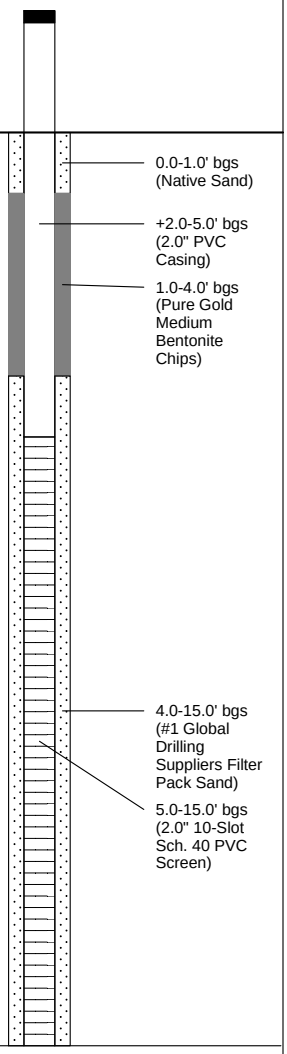
Well/Boring ID: **TW-DH-RW-01-05**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 43F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0				NA			(0.0 - 1.0') GRAVEL.	
				2.0			(1.0 - 3.0') PEBBLE, medium, angular; little sand, very coarse, angular; trace silt; poorly sorted; wet; very dark grayish brown (2.5Y 3/2). NOTE: FILL. Most likely wet due to SLAG (brick, metal, glass fragments) forming perched water.	
	1	0.0-6.0	6.0	0.8				
				2.8			(3.0 - 8.0') SAND, fine, little granules, subrounded to subangular; trace small pebbles, subrounded to subangular; little silt; poorly sorted; moist; light olive brown (2.5Y 5/4).	
				1.9				
5 / -5				5.0			NOTE: Slight odor from 3.0 to 8.0' bgs.	
				1.6				
	2	6.0-10.0	3.3	1.8				
				4.7			(8.0 - 9.0') CLAY, medium plasticity, no dilatancy; stiff; dry; olive brown (2.5Y 4/6). NOTE: Gray (10YR 2/1) mottling.	
				5.0			(9.0 - 12.0') SAND, fine, little granules, subrounded to subangular; trace small pebbles, subrounded to subangular; little silt; poorly sorted; moist; light olive brown (2.5Y 5/4).	
10 / -10				2.0			NOTE: Wet at 10.0' bgs.	▼
				2.1				
	3	10.0-15.0	3.7	1.6			(12.0 - 15.0') SAND, medium; well sorted; moist; light olive brown (2.5Y 5/3).	
				1.8				
				1.2				
15 / -15							NOTE: End of boring at 15.0' bgs.	



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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs. Approximately 25 gallons of drilling water used.

TW-DH-RW-01-05 (5-7) collected at 1555
TW-DH-RW-01-05 (9-11) collected at 1600
TW-DH-RW-01-05 (13-15) collected at 1605

Date Start: 1/14/2014
Date Finish: 1/14/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 7.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 565969.907
Easting: 13305597.452
Casing Elevation: 752.663

Borehole Depth (ft. bgs.): 15.0' bgs
Surface Elevation: 750.581

Descriptions By: Adam Richmond

Well/Boring ID: **TW-DH-RW-01-06**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 21F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			(0.0 - 2.0') GRAVEL.		0.0-1.0' bgs (Native Sand)
				NA					+2.0-5.0' bgs (2.0" PVC Casing)
				0.8			(2.0 - 3.0') PEBBLE, medium, angular; little sand, very coarse, angular; trace silt; poorly sorted; wet; very dark grayish brown (2.5Y 3/2).		1.0-4.0' bgs (Pure Gold Medium Bentonite Chips)
	1	0.0-6.0	6.0	1.2			NOTE: FILL. Most likely wet due to SLAG (brick, metal, glass fragments) forming perched water.		
				0.9			(3.0 - 8.5') SAND, fine, little granules, subrounded to subangular; trace small pebbles, subrounded to subangular; little silt; poorly sorted; moist; light olive brown (2.5Y 5/4).		
5 / -5				1.0			NOTE: Slight odor from 3.0 to 8.5' bgs.		
				0.3					
				0.5			NOTE: Wet at 7.0' bgs.	▼	
	2	6.0-10.0	2.9	0.5			(8.5 - 9.0') CLAY, medium plasticity, no dilatancy; stiff; dry; olive brown (2.5Y 4/6). NOTE: Gray (10YR 2/1) mottling.		
				0.6			(9.0 - 12.0') SAND, fine, little granules, subrounded to subangular; trace small pebbles, subrounded to subangular; little silt; poorly sorted; moist; light olive brown (2.5Y 5/4).		4.0-15.0' bgs (#1 Global Drilling Suppliers Filter Pack Sand)
10 / -10				0.2					5.0-15.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
				0.3					
	3	10.0-15.0	3.25	0.2			(12.0 - 15.0') SAND, medium; well sorted; moist; light olive brown (2.5Y 5/3).		
15 / -15				0.2			NOTE: End of boring at 15.0' bgs.		

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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs. Approximately 25 gallons of drilling water used.

TW-DH-RW-01-06 (5-7) collected at 0905
TW-DH-RW-01-06 (9-11) collected at 0910
TW-DH-RW-01-06 (13-15) collected at 0915

Date Start: 1/14/2014
Date Finish: 1/14/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 7.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 565966.136
Easting: 13305606.657
Casing Elevation: 752.517

Borehole Depth (ft. bgs.): 15.0' bgs
Surface Elevation: 750.629

Descriptions By: Adam Richmond

Well/Boring ID: **TW-DH-RW-01-07**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 25F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			(0.0 - 1.0') PEBBLE, very large, angular; poorly sorted; dry; gray (10YR 4/1). NOTE: FILL		0.0-1.0' bgs (Native Sand)
				0.2			(1.0 - 3.0') PEBBLE, medium, angular; little sand, very coarse, angular; trace silt; poorly sorted; wet; very dark grayish brown (2.5Y 3/2).		+2.0-5.0' bgs (2.0" PVC Casing)
				0.2			NOTE: FILL. Most likely wet due to SLAG (brick, metal, glass fragments) forming perched water.		1.0-4.0' bgs (Pure Gold Medium Bentonite Chips)
	1	0.0-6.0	6.0	0.9			(3.0 - 12.0') SAND, fine, little granules, subrounded to subangular; trace small pebbles, subrounded to subangular; little silt; poorly sorted; moist; light olive brown (2.5Y 5/4).		
5 / -5				2.1					
				3.3			NOTE: Slight odor from 3.0 to 12.0' bgs.		
				0.9					
				1.1			NOTE: Wet at 7.0' bgs.	▼	
	2	6.0-10.0	3.2	1.5					
				1.8					4.0-15.0' bgs (#1 Global Drilling Suppliers Filter Pack Sand)
10 / -10				0.8					5.0-15.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
				0.7					
	3	10.0-15.0	4.3	0.7			(12.0 - 15.0') SAND, medium; well sorted; moist; light olive brown (2.5Y 5/3).		
				0.6					
15 / -15				0.6			NOTE: End of boring at 15.0' bgs.		

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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs. Approximately 25 gallons of drilling water used.

TW-DH-RW-01-07 (5-7) collected at 1005
TW-DH-RW-01-07 (9-11) collected at 1010
TW-DH-RW-01-07 (13-15) collected at 1015

Date Start: 1/10/2014
Date Finish: 1/10/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 7.0'
Water Level Finish (ft. btoc.): NA

Northing: 565875.948
Easting: 13305595.523
Casing Elevation: 753.335

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: 750.78

Descriptions By: A. Richmond

Well/Boring ID: **TW-DH-RW-02-01**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 29F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			(0.0 - 2.0') PEBBLE, very large; poorly sorted; dry; gray (10YR 4/1).		0.0-1.0' bgs (Native Sand)
				NA			NOTE: Gravel FILL.		+2.0-5.0' bgs (2.0" PVC Casing)
	1	0.0-6.0	6.0	0.3			(2.0 - 6.0') SAND, coarse, little medium, angular; little medium pebbles, subangular; trace large pebbles, angular; trace clay; poorly sorted; moist; dark yellowish brown (10YR 4/6).		1.0-4.0' bgs (Pure Gold Medium Bentonite Chips)
				0.9					
				4.4			NOTE: SLAG (metal, glass and brick fragments) at 4.0-6.0' bgs. Slight Odor. Little black sand (10YR 2/1).		
5 / -5				1.6					
				0.9			(6.0 - 8.5') SAND, fine, little silt, trace medium pebbles, subrounded to subangular; poorly sorted; moist; dark olive brown (2.5Y 3/3).	▼	
	2	6.0-10.0	4.0	0.4			NOTE: Wet at 7.0' bgs.		
				0.3			(8.5 - 15.0') SAND, medium, trace granules, subrounded to subangular; well sorted; wet; light olive brown (2.5Y 5/4).		4.0-15.0' bgs (#1 Global Drilling Suppliers Filter Pack Sand)
				1.5					
10 / -10				0.3			NOTE: Slight odor from 10.0 to 12.0' bgs.		5.0-15.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
	3	10.0-15.0	4.7	0.4					
				0.3			NOTE: Moist from 13.0 to 15.0' bgs.		
				0.3					
				0.3					
15 / -15							NOTE: End of boring at 15.0' bgs		

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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs

TW-DH-RW-02-01 (5-7) collected at 0920
TW-DH-RW-02-01 (9-11) collected at 0925
TW-DH-RW-02-01 (13-15) collected at 0930

Date Start: 1/10/2014
Date Finish: 1/10/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 7.0'
Water Level Finish (ft. btoc.): NA

Northing: 565883.764
Easting: 13305594.376
Casing Elevation: 753.012

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: 750.566

Descriptions By: A. Richmond

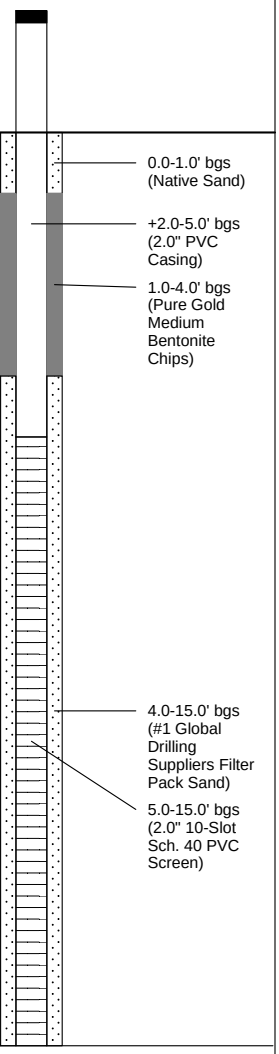
Well/Boring ID: **TW-DH-RW-02-02**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 30F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0				NA			(0.0 - 1.0') GRAVEL FILL.	
				0.2			(1.0 - 6.0') SAND, coarse, little medium, angular; little medium pebbles, subangular; trace large pebbles, angular; trace clay; poorly sorted; moist; dark yellowish brown (10YR 4/6).	
	1	0.0-6.0	6.0	0.1				
				5.3				
				5.3			NOTE: SLAG (metal, glass and brick fragments) at 4.0-6.0' bgs. Slight Odor. Little black sand (10YR 2/1).	
5 / -5				4.1				
				1.1			(6.0 - 8.5') SAND, fine, little silt, trace medium pebbles, subrounded to subangular; poorly sorted; moist; dark olive brown (2.5Y 3/3).	
	2	6.0-10.0	4.0	0.8			NOTE: Wet at 7.0' bgs.	▼
				0.5			(8.5 - 15.0') SAND, medium, trace granules, subrounded to subangular; well sorted; wet; light olive brown (2.5Y 5/4).	
10 / -10				2.7				
				1.6			NOTE: Slight odor from 10.0 to 12.0' bgs.	
				2.6				
	3	10.0-15.0	4.2	1.3				
				1.3			NOTE: Moist from0 13.0 to 15.0' bgs.	
15 / -15				1.3				
							NOTE: End of boring at 15.0' bgs	



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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs

TW-DH-RW-02-02 (5-7) collected at 1010
TW-DH-RW-02-02 (9-11) collected at 1015
TW-DH-RW-02-02 (13-15) collected at 1020

Date Start: 1/10/2014
Date Finish: 1/10/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.0'
Water Level Finish (ft. btoc.): NA

Northing: 565883.962
Easting: 13305608.692
Casing Elevation: 753.36

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: 750.459

Descriptions By: A. Richmond

Well/Boring ID: **TW-DH-RW-02-03**

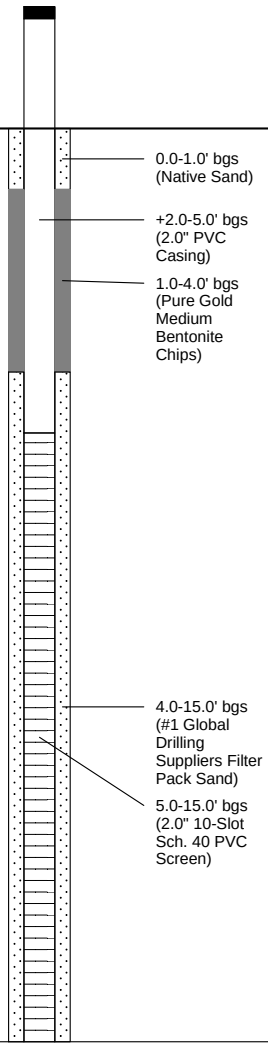
Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 30F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0				NA			(0.0 - 1.0') GRAVEL FILL.	
				0.5			(1.0 - 6.0') SAND, coarse, little medium, angular; little medium pebbles, subangular; trace large pebbles, angular; trace clay; poorly sorted; moist; dark yellowish brown (10YR 4/6).	
	1	0.0-6.0	6.0	0.1				
				0.2				
				0.0			NOTE: SLAG (metal, glass and brick fragments) at 4.0-6.0' bgs. Slight Odor. Little black sand (10YR 2/1).	
5 / -5				0.6				
				0.1			(6.0 - 8.5') SAND, fine, little silt, trace medium pebbles, subrounded to subangular; poorly sorted; moist; dark olive brown (2.5Y 3/3).	
	2	6.0-10.0	4.0	0.6				
				0.7			(8.5 - 15.0') SAND, medium, trace granules, subrounded to subangular; well sorted; wet; light olive brown (2.5Y 5/4).	
10 / -10				1.1				▼
				1.7			NOTE: Wet at 10.0' bgs. Slight odor from 10.0 to 12.0' bgs.	
				1.1				
	3	10.0-15.0	4.0	0.5				
				0.6			NOTE: Moist from 13.0 to 15.0' bgs.	
15 / -15				0.5				
							NOTE: End of boring at 15.0' bgs	

Well/Boring Construction



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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs

TW-DH-RW-02-03 (5-7) collected at 1100
TW-DH-RW-02-03 (9-11) collected at 1105
TW-DH-RW-02-03 (13-15) collected at 1110

Date Start: 1/10/2014
Date Finish: 1/10/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 8.0'
Water Level Finish (ft. btoc.): NA

Northing: 565861.647
Easting: 13305603.67
Casing Elevation: 752.483

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: 750.289

Descriptions By: A. Richmond

Well/Boring ID: **TW-DH-RW-02-04**

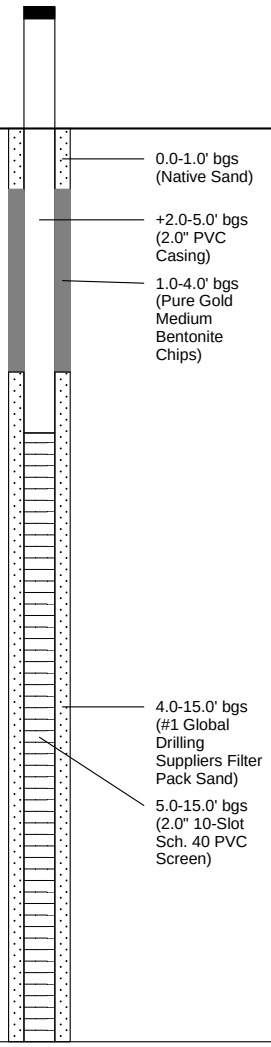
Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 30F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0								
				NA			(0.0 - 1.0') GRAVEL FILL.	
				0.7			(1.0 - 6.0') SAND, coarse, little medium, angular; little medium pebbles, subangular; trace large pebbles, angular; trace clay; poorly sorted; moist; dark yellowish brown (10YR 4/6).	
	1	0.0-6.0	6.0	0.4				
				0.1				
				0.0			NOTE: SLAG (metal, glass and brick fragments) at 4.0-6.0' bgs. Slight Odor. Little black sand (10YR 2/1).	
5 / -5				1.3				
				5.1			(6.0 - 9.0') SAND, fine, little silt, trace medium pebbles, subrounded to subangular; poorly sorted; moist; dark olive brown (2.5Y 3/3).	
	2	6.0-10.0	4.0	6.2			NOTE: Wet at 8.0' bgs.	▼
				2.7				
				6.0			(9.0 - 10.0') CLAY, medium plasticity, no dilatancy; trace small pebbles, subrounded; dry; dark yellowish brown (10YR 4/6).	
10 / -10				2.5			(10.0 - 15.0') SAND, medium, trace granules, subrounded to subangular; well sorted; wet; light olive brown (2.5Y 5/4).	
				NA			NOTE: Slight odor from 10.0 to 12.0' bgs.	
	3	10.0-15.0	5.0	1.0			NOTE: Moist from 13.0 to 15.0' bgs.	
				0.8				
15 / -15							NOTE: End of boring at 15.0' bgs	

Well/Boring Construction



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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs

TW-DH-RW-02-04 (5-7) collected at 1145
TW-DH-RW-02-04 (9-11) collected at 1150
TW-DH-RW-02-04 (13-15) collected at 1155

Date Start: 1/10/2014
Date Finish: 1/10/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 7.5'
Water Level Finish (ft. btoc.): NA

Northing: 565853.268
Easting: 13305604.622
Casing Elevation: 752.677

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: 750.225

Descriptions By: A. Richmond

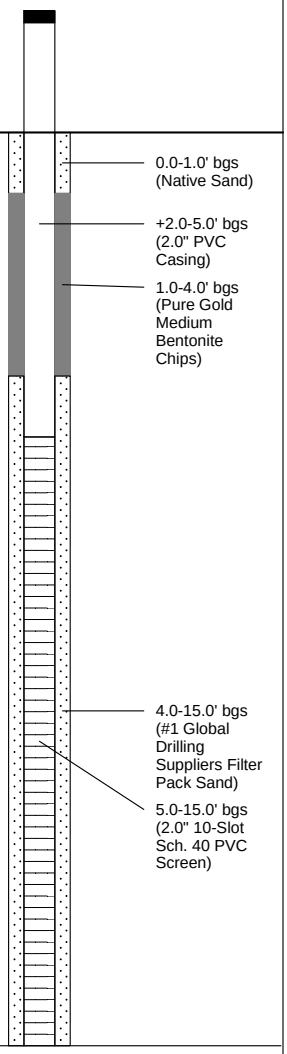
Well/Boring ID: **TW-DH-RW-02-05**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 30F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0				NA			(0.0 - 1.0') GRAVEL FILL.	
				0.0			(1.0 - 6.0') SAND, coarse, little medium, angular; little medium pebbles, subangular; trace large pebbles, angular; trace clay; poorly sorted; moist; dark yellowish brown (10YR 4/6).	
	1	0.0-6.0	6.0	0.4				
				11.7			NOTE: SLAG (metal, glass and brick fragments) from 4.0 to 6.0' bgs. Slight Odor. Little black sand (10YR 2/1).	
5 / -5				7.5				
				9.6				
				3.8			(6.0 - 8.5') SAND, fine, little silt,trace medium pebbles, subrounded to subangular; poorly sorted; moist; dark olive brown (2.5Y 3/3).	
	2	6.0-10.0	4.0	3.4			NOTE: Wet at 7.5' bgs.	▼
				1.4			(8.5 - 9.5') CLAY, medium plasticity, no dilatancy; trace small pebbles, subrounded; dry; dark yellowish brown (10YR 4/6).	
				2.3			(9.5 - 15.0') SAND, medium, trace granules, subrounded to subangular; well sorted; wet; light olive brown (2.5Y 5/4).	
10 / -10				0.2				
				0.2			NOTE: Slight odor from 10.0 to 12.0' bgs.	
	3	10.0-15.0	5.0	0.2			NOTE: Moist from 13.0 to 15.0' bgs.	
				0.1				
15 / -15							NOTE: End of boring at 15.0' bgs	



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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs

TW-DH-RW-02-05 (5-7) collected at 1430
TW-DH-RW-02-05 (9-11) collected at 1435
TW-DH-RW-02-05 (13-15) collected at 1440

Date Start: 1/10/2014
Date Finish: 1/10/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 7.0'
Water Level Finish (ft. btoc.): NA

Northing: 565857.743
Easting: 13305609.821
Casing Elevation: 753.482

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: 750.405

Descriptions By: A. Richmond

Well/Boring ID: **TW-DH-RW-02-06**

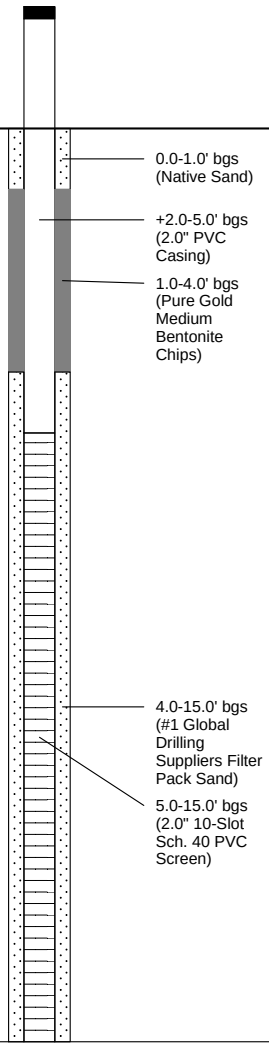
Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 29F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0				NA			(0.0 - 1.0') GRAVEL FILL.	
				0.0			(1.0 - 6.0') SAND, coarse, little medium, angular; little medium pebbles, subangular; trace large pebbles, angular; trace clay; poorly sorted; moist; dark yellowish brown (10YR 4/6).	
	1	0.0-6.0	6.0	0.4				
				11.7			NOTE: SLAG (metal, glass and brick fragments) from 4.0 to6.0' bgs. Slight Odor. Little black sand (10YR 2/1).	
5 / -5				7.5				
				9.6				
				3.8			(6.0 - 7.0') CLAY, medium plasticity, no dilatancy; trace small pebbles, subrounded; dry; dark yellowish brown (10YR 4/6).	
	2	6.0-10.0	4.0	3.4			(7.0 - 8.5') SAND, fine, little silt, trace medium pebbles, subrounded to subangular; poorly sorted; wet; dark olive brown (2.5Y 3/3). NOTE: Wet at 7.0' bgs.	▼
				1.4			(8.5 - 15.0') SAND, medium, trace granules, subrounded to subangular; well sorted; wet; light olive brown (2.5Y 5/4).	
10 / -10				2.3				
				0.2				
				0.2			NOTE: Slight odor from 10.0 to 12.0' bgs.	
	3	10.0-15.0	5.0	0.2			NOTE: Moist from 13.0 to 15.0' bgs.	
				0.1				
15 / -15							NOTE: End of boring at 15.0' bgs	

Well/Boring Construction



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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs

TW-DH-RW-02-06 (5-7) collected at 1500
TW-DH-RW-02-06 (9-11) collected at 1505
TW-DH-RW-02-06 (13-15) collected at 1510

Date Start: 1/10/2014
Date Finish: 1/10/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 7.0'
Water Level Finish (ft. btoc.): NA

Northing: 565874.663
Easting: 13305608.557
Casing Elevation: 752.862

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: 750.519

Descriptions By: A. Richmond

Well/Boring ID: **TW-DH-RW-02-07**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 29F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			(0.0 - 2.0') PEBBLE, very large; poorly sorted; dry; gray (10YR 4/1).		0.0-1.0' bgs (Native Sand)
				0.3			NOTE: Gravel FILL.		+2.0-5.0' bgs (2.0" PVC Casing)
	1	0.0-6.0	6.0	0.2			(2.0 - 6.0') SAND, coarse, little medium, angular; little medium pebbles, subangular; trace large pebbles, angular; trace clay; poorly sorted; moist; dark yellowish brown (10YR 4/6).		1.0-4.0' bgs (Pure Gold Medium Bentonite Chips)
				0.3					
				1.5			NOTE: SLAG (metal, glass and brick fragments) from 4.0 to 6.0' bgs. Slight Odor. Little black sand (10YR 2/1).		
5 / -5				0.7					
				0.6			(6.0 - 8.5') SAND, fine, little silt, trace medium pebbles, subrounded to subangular; poorly sorted; moist; dark olive brown (2.5Y 3/3).	▼	
	2	6.0-10.0	4.0	3.7			NOTE: Wet at 7.0' bgs.		
				4.0			(8.5 - 15.0') SAND, medium, trace granules, subrounded to subangular; well sorted; wet; light olive brown (2.5Y 5/4).		4.0-15.0' bgs (#1 Global Drilling Suppliers Filter Pack Sand)
				1.1					
10 / -10				4.4			NOTE: Slight odor from 10.0 to 12.0' bgs.		5.0-15.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
				2.1					
	3	10.0-15.0	4.7	2.2			NOTE: Moist from 13.0 to 15.0' bgs.		
				1.9					
15 / -15				1.6					
							NOTE: End of boring at 15.0' bgs		

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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs

TW-DH-RW-02-07 (5-7) collected at 1555
TW-DH-RW-02-07 (9-11) collected at 1600
TW-DH-RW-02-07 (13-15) collected at 1605

Date Start: 1/09/2014
Date Finish: 1/09/2014
Drilling Company: Cascade Drilling
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 6.0'
Water Level Finish (ft. btoc.): NA

Northing: 565749.325
Easting: 13305567.718
Casing Elevation: 752.512

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: 750.643

Descriptions By: A. Richmond

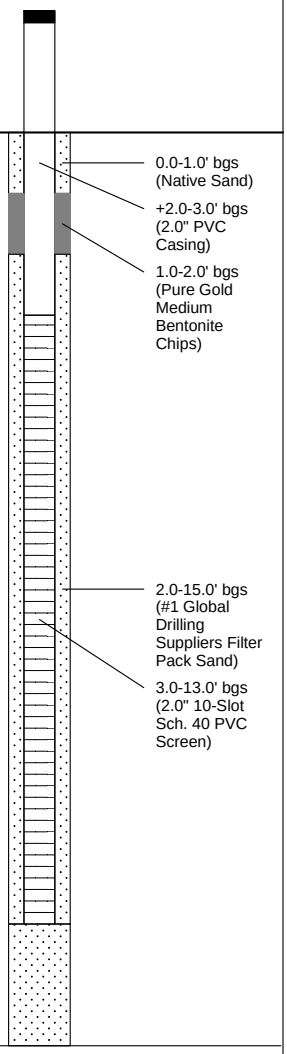
Well/Boring ID: **TW-DH-RW-03-05**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Clear, -12F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0				NA NA NA			(0.0 - 3.0') GRAVEL.	
	1	0.0-6.0	6.0	2.6			(3.0 - 6.0') SAND, medium, subrounded; little medium pebbles, subrounded; trace large pebbles, subrounded; poorly sorted; moist; brown (10YR 3/4). NOTE: Transition to dark gray (2.5Y 2.5/1) at 3.5' bgs.	
5 / -5				21.5 13.5			NOTE: Strong odor and staining at 5.0' bgs.	
	2	6.0-10.0	2.25	10.2 8.0 5.5 14.5			(6.0 - 15.0') SAND, fine, subrounded; trace silt; well sorted; moist; dark gray (2.5Y 3/2). NOTE: Wet from 6.0 to 13.0' bgs. Dry from 13.0 to 15.0' bgs. NOTE: Staining and strong odor; transition to brown (2.5Y 4/4) at 7.0' bgs.	▼
10 / -10				21.0 14.2				
	3	10.0-15.0	4.8	11.6 1.2 1.1				
15 / -15							NOTE: End of boring at 15.0' bgs.	



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Remarks: bgs = below ground surface
btoc = below top of casing

Hand auger to 6.0' bgs

Sample TW-DH-RW-03-05 (5-7) collected at 1010
Sample TW-DH-RW-03-05 (9-11) collected at 1015
Sample TW-DH-RW-03-05 (13-15) collected at 1020

Date Start: 1/09/2014
Date Finish: 1/09/2014
Drilling Company: Cascade Drilling
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 7.0'
Water Level Finish (ft. btoc.): NA

Northing: 565747.533
Easting: 13305583.077
Casing Elevation: 751.741

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: 749.88

Descriptions By: A. Richmond

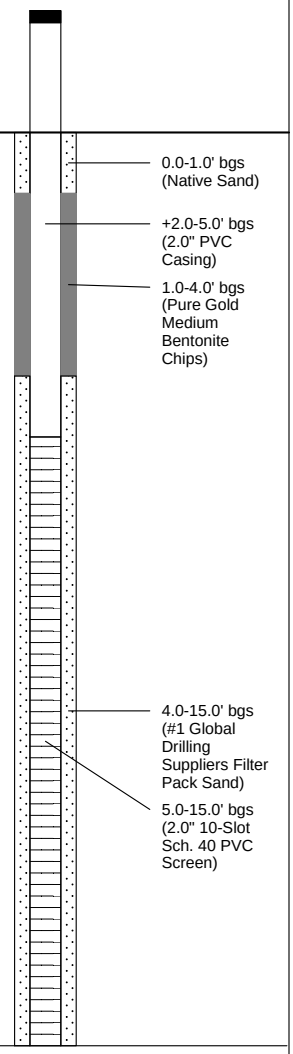
Well/Boring ID: **TW-DH-RW-03-06**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Clear, -2F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0								
				NA			(0.0 - 3.0') GRAVEL.	
				NA				
	1	0.0-6.0	6.0	0.0			(3.0 - 6.0') SAND, medium, subrounded; little medium pebbles, subrounded; trace large pebbles, subrounded; poorly sorted; moist; brown (10YR 3/4).	
							NOTE: Transition to dark gray (2.5Y 2.5/1) at 3.5' bgs.	
5 / -5				0.0			NOTE: Strong odor and staining at 5.0' bgs.	
							(6.0 - 15.0') SAND, fine, subrounded; trace silt; well sorted; moist; dark gray (2.5Y 3/2).	
				0.0			NOTE: Staining and strong odor; transition to brown (2.5Y 4/4) at 7.0' bgs.	▼
	2	6.0-10.0	4.0				NOTE: Wet at 7.0' bgs.	
				0.0				
10 / -10								
				0.0				
	3	10.0-15.0	5.0					
				0.0				
				0.0				
15 / -15							NOTE: End of boring at 15.0' bgs.	



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Remarks: bgs = below ground surface
btoc = below top of casing

Hand auger to 6.0' bgs

Sample TW-DH-RW-03-06 (5-7) collected at 1130
Sample TW-DH-RW-03-06 (9-11) collected at 1135
Sample TW-DH-RW-03-06 (13-15) collected at 1140

Date Start: 1/09/2014
Date Finish: 1/09/2014
Drilling Company: Cascade Drilling
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 6.0'
Water Level Finish (ft. btoc.): NA

Northing: 565740.156
Easting: 13305564.546
Casing Elevation: 752.142

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: 750.165

Descriptions By: A. Richmond

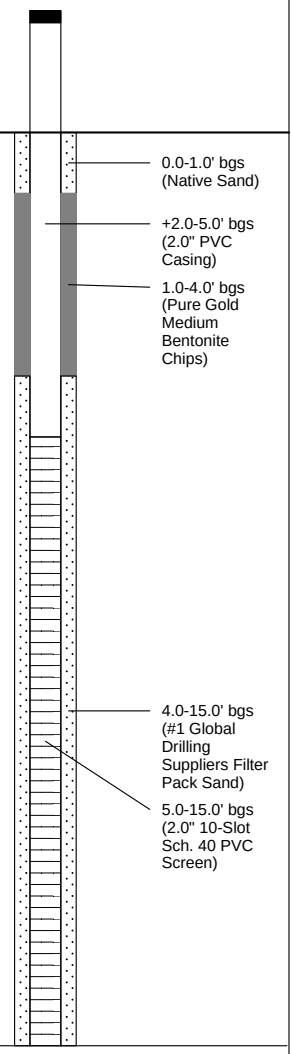
Well/Boring ID: **TW-DH-RW-03-07**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 13F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0				NA			(0.0 - 1.0') GRAVEL.	
				0.1			(1.0 - 6.0') SAND, medium, subrounded; little medium pebbles, subrounded; trace large pebbles, subrounded; poorly sorted; moist; brown (10YR 3/4).	
	1	0.0-6.0	6.0	2.2				
				0.0			NOTE: Transition to dark gray (2.5Y 2.5/1) at 3.5' bgs.	
5 / -5				0.0			NOTE: Strong odor and staining at 5.0' bgs.	
				0.0			(6.0 - 15.0') SAND, fine, subrounded; trace silt; well sorted; moist; dark gray (2.5Y 3/2).	
	2	6.0-10.0	4.0				NOTE: Wet at 6.0' bgs.	
				0.0			NOTE: Staining and strong odor; transition to brown (2.5Y 4/4) at 7.0' bgs.	
10 / -10				0.0				
	3	10.0-15.0	5.0	0.0				
				0.0				
15 / -15							NOTE: End of boring at 15.0' bgs.	



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Remarks: bgs = below ground surface
btoc = below top of casing

Hand auger to 6.0' bgs

Sample TW-DH-RW-03-07 (5-7) collected at 1525
Sample TW-DH-RW-03-07 (9-11) collected at 1530
Sample TW-DH-RW-03-07 (13-15) collected at 1535

Date Start: 1/17/2014
Date Finish: 1/17/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.0'
Water Level Finish (ft. btoc.): NA

Northing: 565766.502
Easting: 13305582.03
Casing Elevation: 752.207

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: 750.46

Descriptions By: A. Richmond

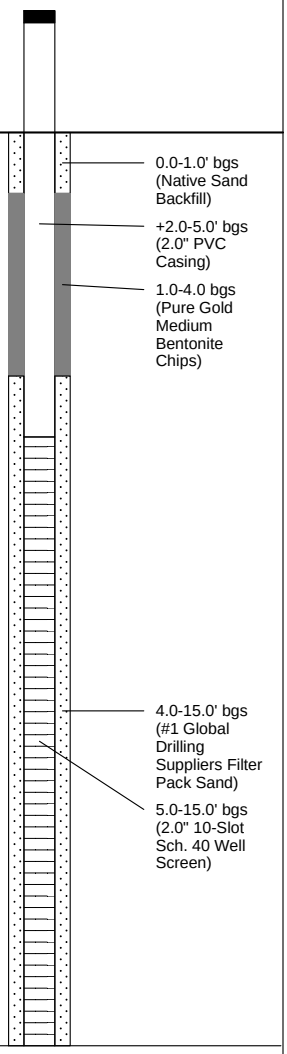
Well/Boring ID: **TW-DH-RW-03-14**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 21F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0								
				NA			(0.0 - 1.0') GRAVEL.	
				0.6			(1.0 - 7.0') SAND, medium, little small pebbles, subrounded to subangular; poorly sorted; moist; dark yellowish brown (10YR 4/6).	
				0.4				
	1	0.0-6.0	6.0	1.6			NOTE: Transition to dark olive brown (2.5Y 3/3) at 3.0' bgs. Little odor from 3.0 to 6.0' bgs.	
				3.3				
5 / -5				1.9				
				0.4			(7.0 - 10.0') SAND, fine, little silt; trace clay; poorly sorted; moist; very dark gray (2.5Y 3/1).	
	2	6.0-10.0	4.0	NA			NOTE: Staining from 8.5 to 12.5' bgs.	
				0.4				
10 / -10								▼
				0.4			(10.0 - 15.0') SAND, medium to coarse, trace granules, subrounded to subangular; well sorted; wet; olive brown (2.5Y 4/6).	
	3	10.0-15.0	5.0				NOTE: Wet at 10.0' bgs. Wood debris 9.0 from 10.0' bgs (strong pine scent).	
				0.4			NOTE: Staining and little odor from 10.0 to 11.0' bgs. PRODUCT at 10.0 to 12.5' bgs.	
				0.4			NOTE: Dry from 12.5 to 15.0' bgs.	
15 / -15							NOTE: End of boring at 15.0' bgs.	



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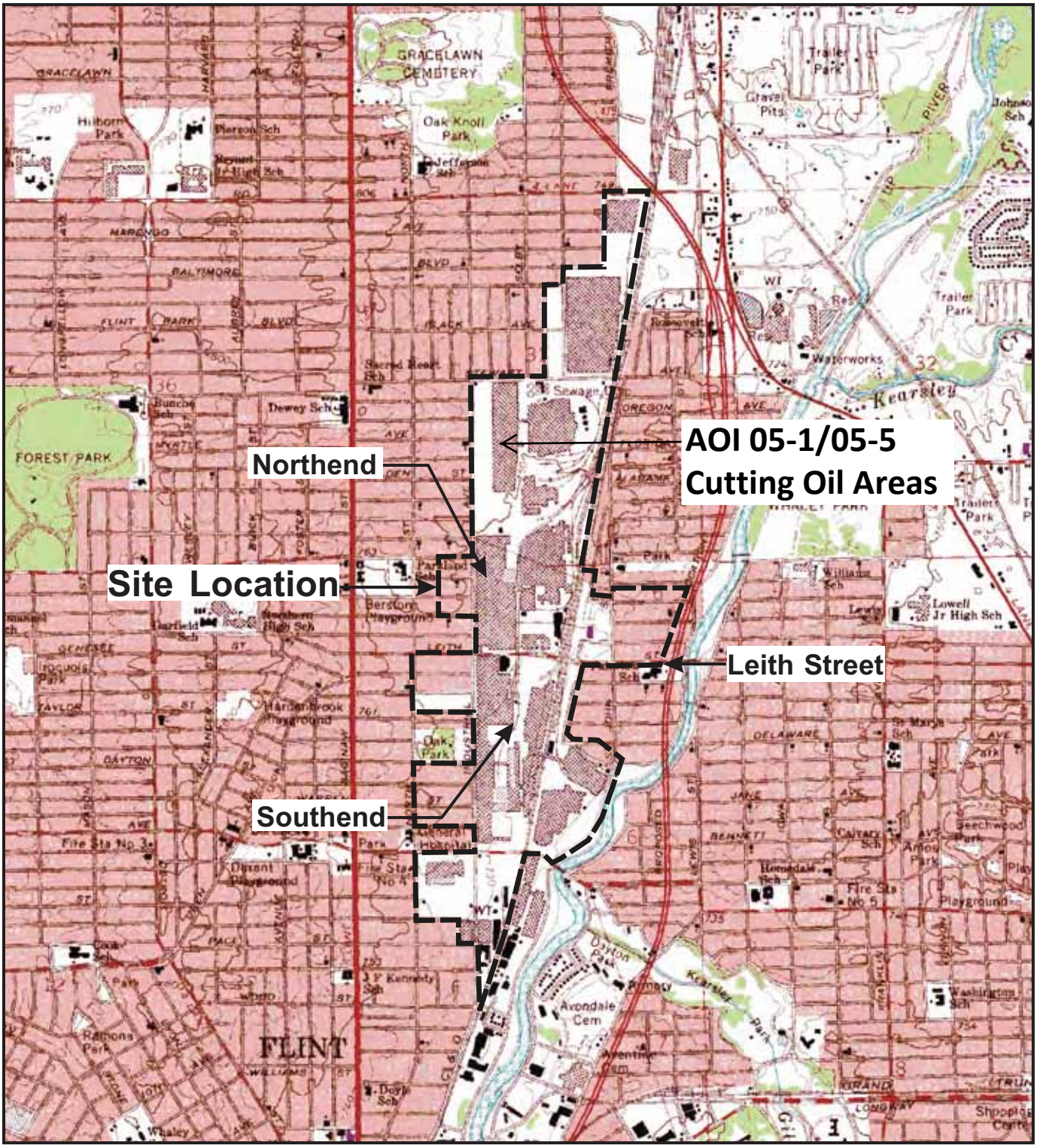
Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs. Approximately 25 gallons of drilling water used.

TW-DH-RW-03-14 (5-7) collected at 1130
TW-DH-RW-03-14 (9-11) collected at 1135
TW-DH-RW-03-14 (13-15) collected at 1140

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Figures



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quad., Flint North, Mich. (1969, Photorevised 1975).

2000' 0 2000'

Approximate Scale: 1" = 2000'



Area Location

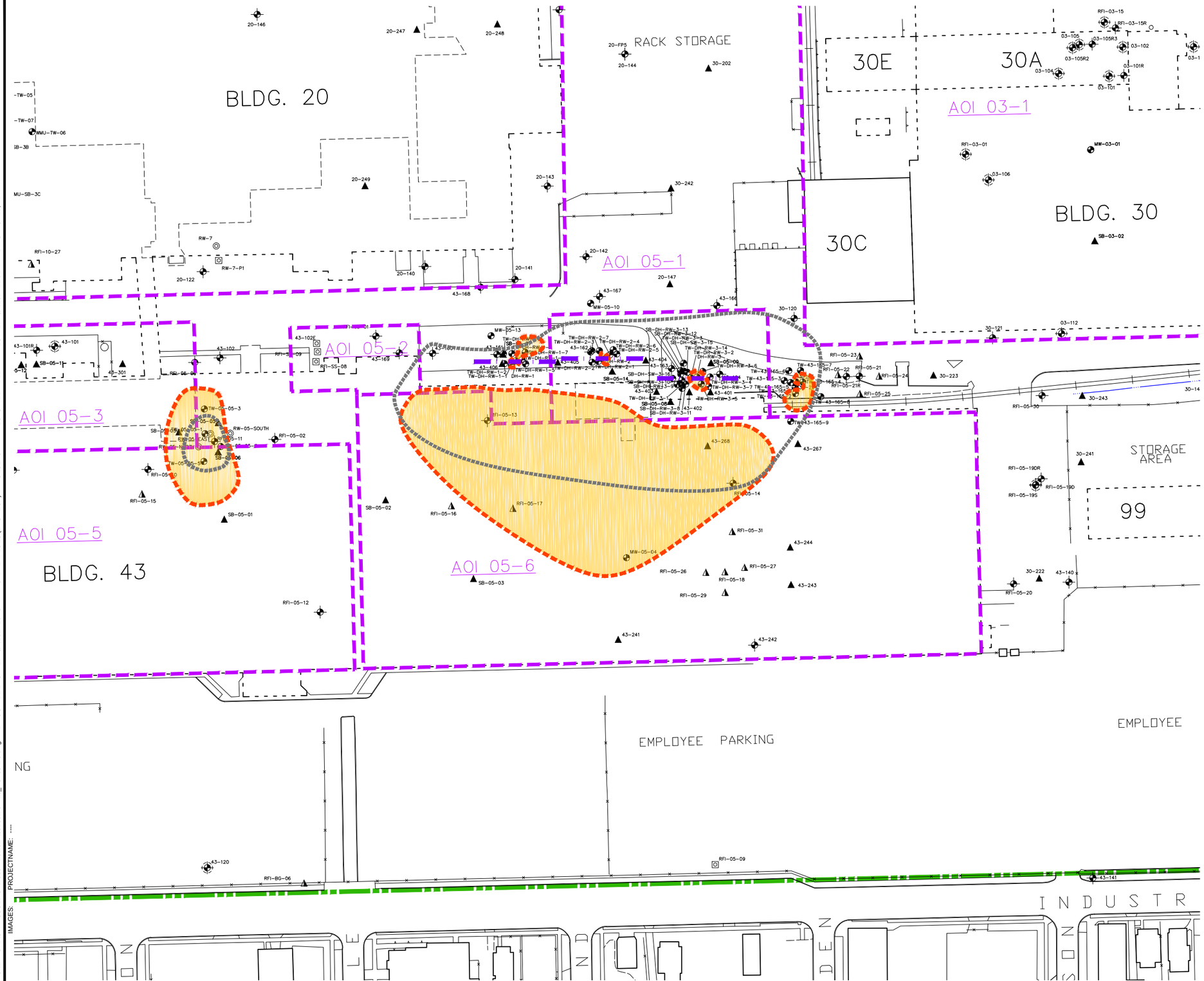
RACER TRUST
BUICK CITY, FLINT, MICHIGAN

SITE LOCATION MAP

ARCADIS

FIGURE
B1-1

03/12/2012 SYRACUSE, NY-ENV/CAD-141-DJHOWES
B0064410/2012/01202/CDR/64410N01.CDR



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- APPROXIMATE LOCATION OF RECOVERY TRENCH

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 60' 120'
APPROXIMATE SCALE IN FEET

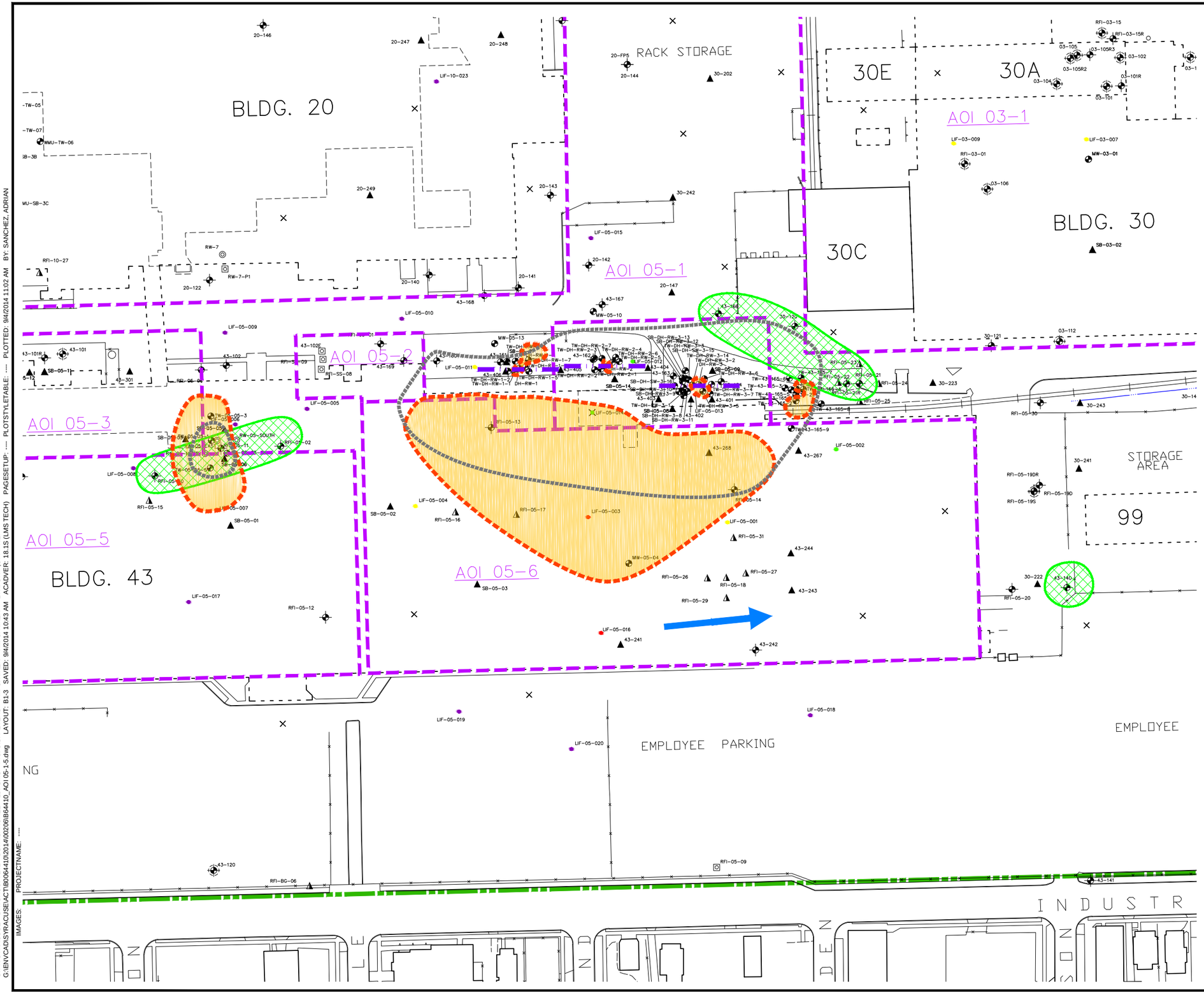
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BUICK CITY
FLINT, MICHIGAN

AOI 05-1/05-5 INVESTIGATION LOCATIONS AND LNAPL EXTENTS

ARCADIS

FIGURE
B1-2

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
G:\ENV\CAD\SYRACUSE\ACTIB\006441\0\2014\002061\B64410_AOI 05-1-5.dwg LAYOUT: B1-2 SAVED: 9/4/2014 10:43 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 9/4/2014 11:01 AM BY: SANCHEZ, ADRIAN
IMAGES:
PROJECTNAME: ----



NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 60' 120'
GRAPHIC SCALE

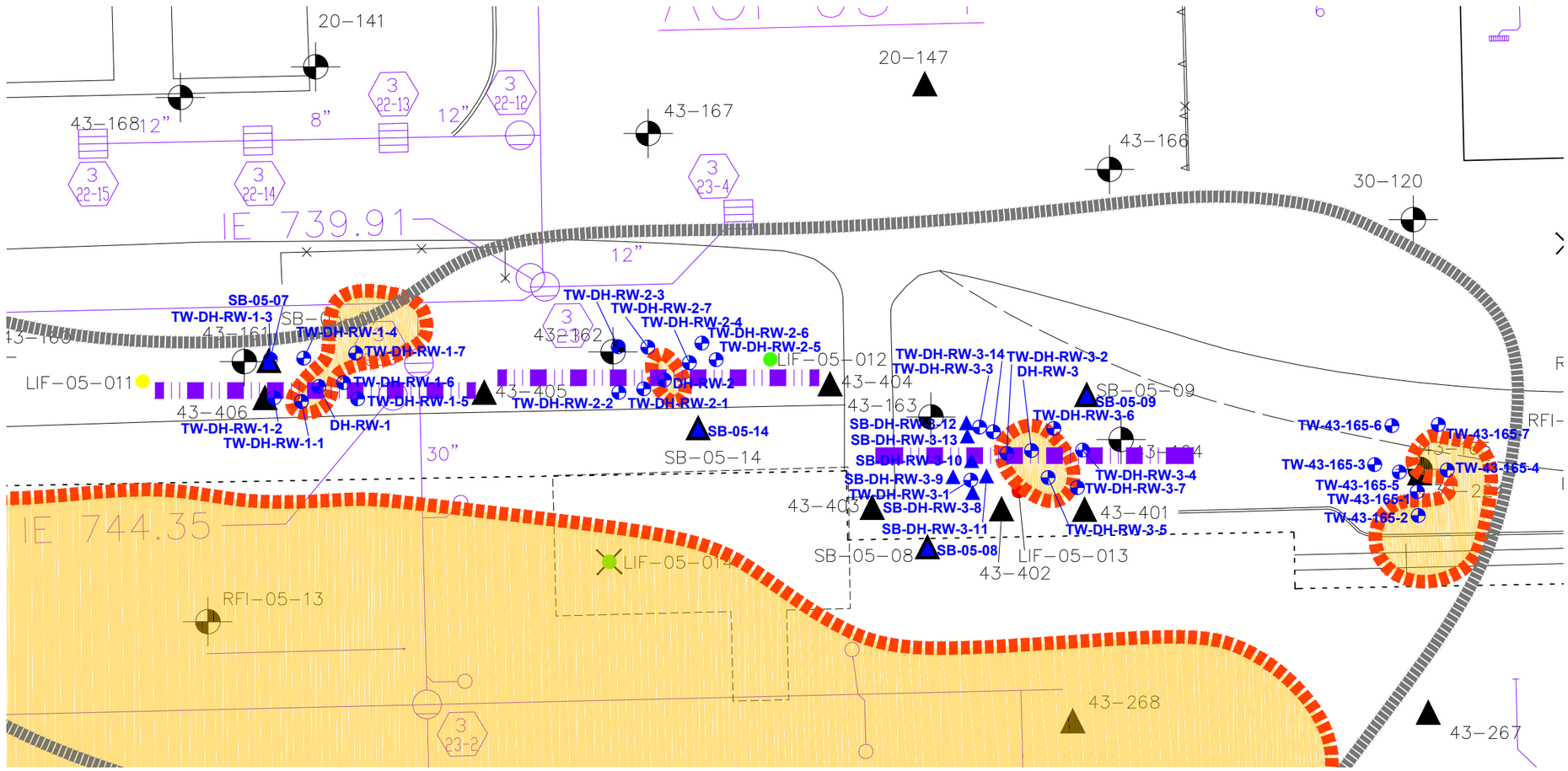
RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 05-1/05-5 DISSOLVED PHASE PLUME

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FIGURE
B1-3

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*OFF=*REF*
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PROJECTNAME: ----
IMAGES:



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- APPROXIMATE LOCATION OF RECOVERY TRENCH
- STORM SEWER LINE
- TEMPORARY WELL LOCATION

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200
- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 20' 40'
APPROXIMATE SCALE IN FEET

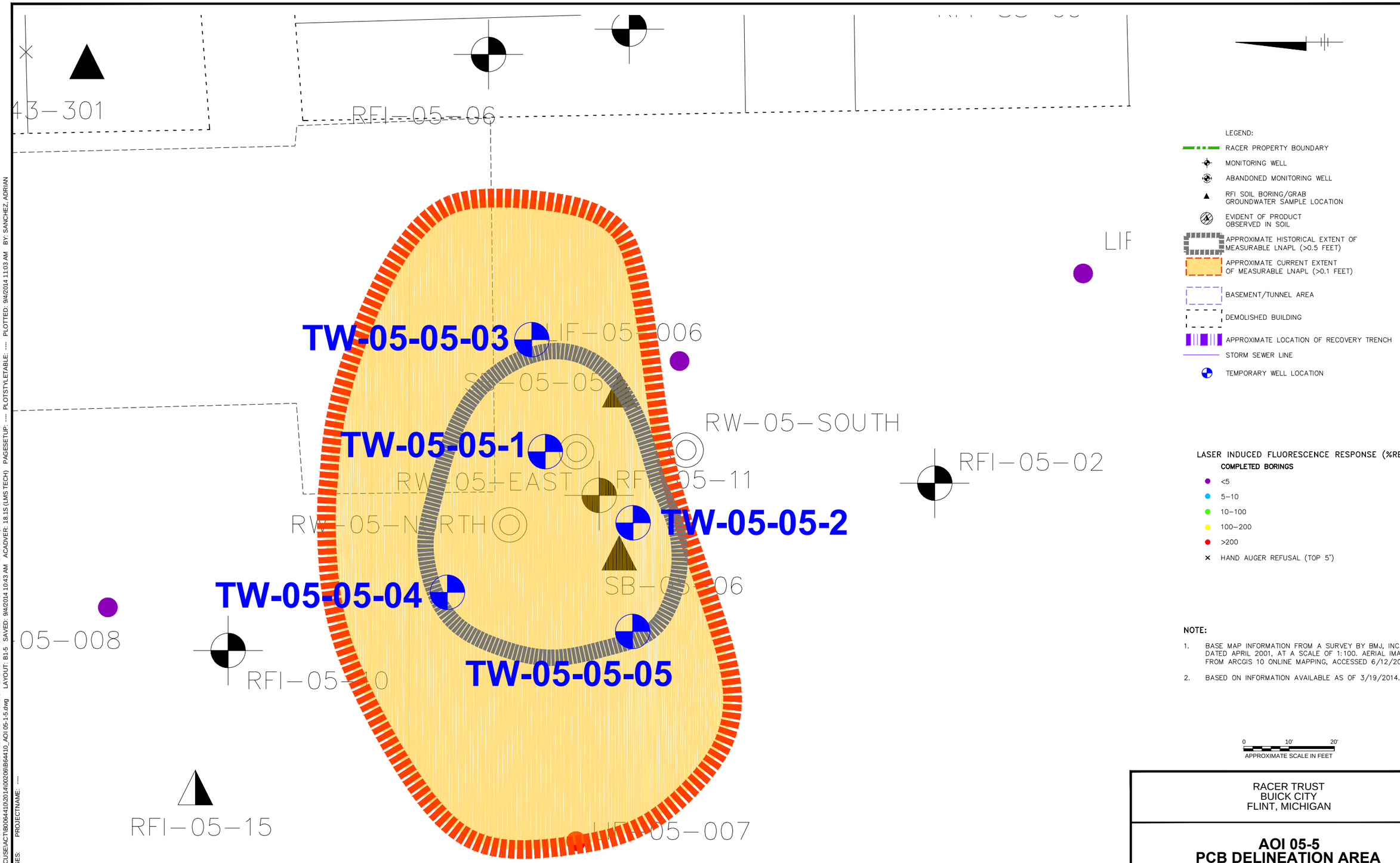
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FLINT, MICHIGAN

AOI 05-1
PCB DELINEATION AREA

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FIGURE
B1-4

CITY: SYRACUSE DV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C.KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\0064410\2014\0020\IB64410_AOI 05-1-5.dwg LAYOUT: B1-4 SAVED: 9/4/2014 10:43 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ----
IMAGES: PROJECTNAME: ---- PLOTSTYLETABLE: ---- PLOTTED: 9/4/2014 11:02 AM BY: SANCHEZ, ADRIAN



NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 10' 20'
APPROXIMATE SCALE IN FEET

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AOI 05-5
PCB DELINEATION AREA

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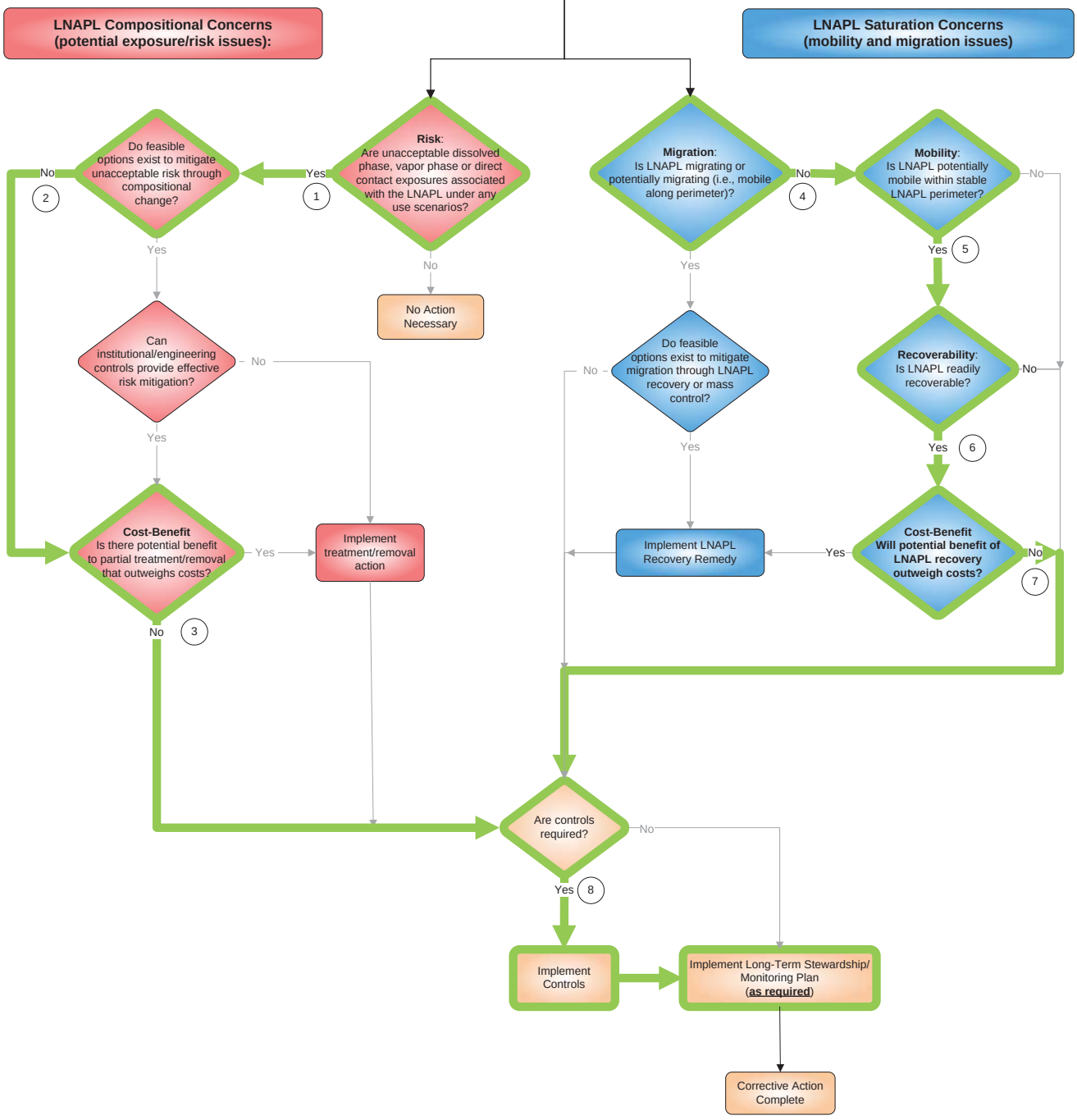
FIGURE
B1-5

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*OFF=*REF*
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IMAGES: PROJECTNAME: ----

Attachment 2

LNAPL Remedial Decision Tree

Attachment 2 LNAPL Remedial Decision Tree Priority #2 – AOI 05-1/05-5 Cutting Oil Areas



NOTES

(#) NOTES: See Page B2-2

Please see Appendix W for the LNAPL Remedial Decision Tree Template that lists additional sources of pertinent information used in the evaluation of the decision points (i.e. tables).

Attachment 2 Notes

Priority #2 - AOI 05-1/05-5 Cutting Oil Areas

Background: The area of interest (AOI) 05-1/05-5 Cutting Oil Areas (AOI 05-1/05-5 light non-aqueous phase liquids [LNAPL] Areas) are located in the central portion of the Northend of the Site near the former Factory 05 footprint. Historically, Factory 05 was primarily used for manufacturing transmission components, including machining and heat treating of vehicle shafts and gear carriers. The AOI 05-1/05-5 LNAPL Areas are presumably due to historical releases associated with operations in this area. There are currently no buildings within the AOI 05-1/05-5 LNAPL Areas.

Geology and Hydrogeology: The soils at AOI 05-1/05-5 consist primarily of fine Sand down to approximately 16 feet bgs. Depth to groundwater in this area varies greatly and has been measured as shallow as 5 feet bgs, as deep as 15 feet bgs, and averages around 10 feet bgs. Based on historic fluid level gauging data, groundwater flow in this portion of the Site is generally to the southeast.

LNAPL Characteristics: Soil boring and LIF logs from the AOI 05-1/05-5 Areas show evidence of LNAPL impacts from as shallow as 2 feet bgs and as deep as 16 feet bgs, across the area. A summary of the LNAPL characteristics at the AOI 05-1 and AOI 05-5 areas are provided below:

- AOI 05-1
  - The LNAPL area is measured in 17 of the wells (43-161, 43-162, 43-163, 43-164, 43-165, MW-05-04, RFI-05-13, RFI-05-14, DH-RW-1 through 3, TW-DH-RW-01-01, TW-DH-RW-01-07, TW-DH-RW-03-02, TW-DH-RW-03-05, TW-43-165-02, and TW-43-165-04) and intermittently at 43-160. The greatest thickness of LNAPL measured at the AOI 05-1 area was 5.39 feet at RFI-05-14 in June 2013.
  - Laboratory analysis indicates that the LNAPL has a viscosity of 4.2 centipoise, an interfacial tension of 14 dynes/centimeter, and a specific gravity of 0.89.
  - While no PCBs were detected at RFI-05-13, the remaining LNAPL samples detected PCBs at concentrations ranging from 4.6 to 200 ppm.
  - The concentrations of arsenic, chromium, and trichloroethene at the AOI 05-1 LNAPL Area exceeded the RCRA toxicity characteristic criteria; however, TCLP analysis has not been completed.
- AOI 05-5
  - The LNAPL area is measured in six wells (RFI-05-11, RW-05-East, RW-05-North, TW-05-05-1, TW-05-05-2, and TW-05-05-5) in the northeastern portion of the former Factory 05 area. The greatest thickness of LNAPL at AOI 05-5 was measured at RW-05-East at 5.01 feet in 2003.
  - Laboratory analysis indicates that the LNAPL has a viscosity of 3.5 centipoise, and interfacial tension of 15 dynes/centimeter, and a specific gravity of 0.90.
  - While no PCBs were detected at RW-05-North, the remaining LNAPL samples detected PCBs at concentrations ranging from 134 to 159 ppm.
  - Arsenic was detected at a concentration that exceeds the RCRA toxicity characteristic criteria; however, TCLP analysis has not been conducted.

1) *Are unacceptable dissolved phase, vapor phase, or direct contact exposures associated with the LNAPL under any use scenarios?*

   YES – The following potential risk/exposure concerns are associated with the AOI 05-1/05-5 LNAPL Areas:

   - Groundwater/surface water interface (GSI):
     - Arsenic, copper, mercury, nickel, cyanide and trichloroethene were detected at concentrations that exceed GSI criteria in monitoring wells located in the vicinity of the AOI 10-1/10-4 LNAPL Area. Groundwater in this area infiltrates the Outfall 003 storm sewer that discharges to the Flint River.
     - Carbazole, phenanthrene, arsenic, cobalt, copper, manganese, mercury, selenium and silver was detected at concentrations exceeding GSI protection criteria in soil samples.
     - LNAPL from the AOI 05-1/05-5 LNAPL Areas is infiltrating the Outfall 003 storm sewer.
   - Direct Contact: PCBs were detected in soil and LNAPL samples collected from AOI 05-1 and AOI 05-5 at concentrations exceeding the nonresidential direct contact (NDC) criteria. The shallowest LNAPL impacts are located approximately two feet below ground surface, and represent a potential concern for future construction or utility workers. Additionally, the concentration of lead detected in soil at two locations (RFI-05-18 and RFI-05-21) exceeded direct contact criteria.
   - Particulate Soil Inhalation (Ambient Air) Concerns: Manganese was detected at concentrations exceeding the nonresidential particulate soil inhalation criteria at one sample location (RFI-05-23). The exceedance is in shallow (4 to 6 ft bgs) soils located beneath asphalt. Engineering and/or institutional controls will be implemented to control this risk/exposure scenario.
   - Groundwater Volatilization to Indoor Air Concern: Groundwater data from two locations ((RFI-05-20 and 43-140) exceed applicable vapor intrusion screening levels. These exceedances will be addressed by institutional controls.
   - Potential Volatilization to Indoor Air Concerns for Future Structures: Theoretically, there is a potential unacceptable vapor phase exposure risk associated with future redevelopment scenarios; however, this will be addressed by the proposed institutional controls.

Attachment 2 Notes

Priority #2 - AOI 05-1/05-5 Cutting Oil Areas

2) *Do feasible options exist to mitigate unacceptable risk through compositional change?*
NO – The following is a general discussion regarding the feasibility of various compositional change remediation strategies for the AOI 05-1/05-5 LNAPL Areas:
    - Enhanced dissolution and recovery via surfactant or hot water flushing may be feasible; however, it is not a viable option based on the presence of PCBs in the LNAPL and the infiltration pathway to the Outfall 003 storm sewers. The use of surfactant would increase mobility and, therefore, likely increase the PCB-impacted LNAPL infiltration into the storm sewer.
    - LNAPL constituents have low volatility rendering remedial technologies that rely on vapor-phase partitioning infeasible on a technical basis.
    - Targeted in-situ soil mixing/land farming using biological additives to address the petroleum constituents may be technically feasible; however, it is not a viable option based on the presence of PCBs in the LNAPL and the infiltration pathway to the Outfall 003 storm sewers.
    - In situ thermal remediation may be technically feasible for the area; however, it is not a viable option based on the presence of PCBs in the LNAPL and nearby City sewers. In addition, it does not represent an economically feasible remedial alternative given the relatively large area that would need to be addressed in order to avoid the generation of dioxins.

3) *Is there a potential benefit to partial treatment/removal that outweighs costs?*
NO – Based on the current understanding of conceptual site model the GSI, direct contact, soil inhalation and vapor phase risks can be effectively mitigated through engineering and institutional controls. In addition, LNAPL recovery systems operated in this area for 15 years; therefore, partial and effective LNAPL removal has already been completed and a transition to institutional controls is now appropriate.

4) *Is LNAPL migrating or potentially migrating (i.e. mobile along the perimeter)?*
NO – While the LNAPL is mobile in the vicinity of the storm sewer, the AOI 05-1 and 05-5 LNAPL Areas appear to be stable. This finding is supported by the following lines of evidence:
    - Well Gauging Data: Sentinel wells located around the periphery of the AOI 05-1 and 05-5 LNAPL Areas have remained free of LNAPL since monitoring began approximately 10 years ago.
    - Age of LNAPL Release: The AOI 05-1/05-5 Areas were identified in 1994. Operations began in this portion of the Site in the 1950's and ceased in this portion of the Site ceased in 2010. LNAPL bodies typically stabilize within 2 to 5 years after a release has been stopped (ITRC, 2012).

5) *Is LNAPL mobile within the stable LNAPL perimeter?*
YES – LNAPL accumulates in monitoring wells and LNAPL from the AOI 05-1/05-5 area is infiltrating the Outfall 003 storm sewer, which passes through the AOI 05-1 Area.

6) *Is LNAPL readily recoverable?*
YES – Historic interim measures (IM) indicate that in the past LNAPL has been recoverable at AOI 05-1 using recovery wells, trenches and bailing (summarized below). However, it is uncertain whether future LNAPL recovery is practical.
    - During the Site-wide LNAPL monitoring program conducted from 2001 through 2005, a total of approximately 50 gallons of LNAPL was recovered during quarterly bailing events in the AOI 05-1/05-5 Area.
    - The AOI 05-5 Area originated from a release of approximately 5,000 gallons of product. In 1997, approximately 1,000 gallons of LNAPL were removed using two product recovery wells (RW-05-North and RW-05-East). Use of the wells was discontinued because the LNAPL was causing malfunction of the recovery pumps.
    - In 1995, three passive recovery trenches were installed along the east side of Building 43 to collect PCB containing LNAPL from the AOI 05-1/05-5 Area. The trenches were approximately 14 feet deep, 3 feet wide and 100 feet long, lined with a geofabric and backfilled with gravel. LNAPL was removed from the trenches via 30-inch-diameter recovery wells installed at the midpoint of the trenches. The total amount of LNAPL recovered by these trenches in unknown; however, one 350-gallon tote of LNAPL was removed from each trench in 2001. LNAPL recovery was discontinued due to pump failure from entrained grit in the LNAPL.

In addition, transmissivity testing was completed by conducting baildown tests on three monitoring wells Transmissivity testing was performed at three monitoring well locations (43-162, 43-165, and MW-05-04) in the AOI 05-1 LNAPL Area. Testing was inconclusive at 43-162 and 43-165 and transmissivity could not be calculated. Based on LNAPL baildown test results, the LNAPL transmissivity quantified at monitoring well MW-05-04 was 0.05 square feet per day (ft^2/day), which is less than both the Interstate Technology & Regulatory Council (ITRC) and Michigan

Department of Environmental Quality (MDEQ) draft threshold values for recovery making recovery impractical in that portion of the LNAPL Area.

7) *Will the potential benefit of LNAPL recovery outweigh costs?*

No – Compositional and saturation concerns can be addressed through excavation and engineering and institutional controls. Targeted excavations are proposed to address PCB impacts (further discussed in **Attachment 3**) at the AOI 05-1/05-5 LNAPL Areas. Engineering and institutional controls will be implemented to eliminate LNAPL infiltration to the Outfall 003 storm sewer, address the GSI pathway, and mitigate potential risk associated with particulate inhalation concerns. Additional LNAPL removal will not materially change the risks associated with this LNAPL Area.

8) *Are controls required?*

YES – In addition to the Site-wide Institutional Controls discussed in the main report, the following controls will be necessary to limit potential for future exposure.

- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads, as shown on **Figure 5 in the main report**.
- Prohibit any excavation or other intrusive activity that could affect the integrity of the surface cover that is present to prevent direct contact with contaminated material, except with using appropriate health and safety measures, during short-term construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the surface cover, that could affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original barrier within a reasonable timeframe. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the Natural Resources and Environmental Protection Act.
- Require that any intrusive activities (i.e., excavation, repair of foundation or subsurface utilities, short-term construction and landscaping projects) into the subsurface beneath the cap must be consistent with MIOSHA requirements, including the use of a Health and Safety Plan and a trained professional to evaluate the Site data prior to initiating activities. All relevant Site data must be made available for the preparation of the Health and Safety Plan. Data may be made available as part of the Due Care Plan, RFI, or other document(s).
- Notification to future property owners to the presence of PCBs, and
- Restrict the area shown on **Figure B3-1** to low occupancy based on the presence of PCBs.

Attachment 3

761.61(c) Risk Based Cleanup and Disposal Request

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Priority #2 – AOI 05-1/05-5 Cutting Oil Areas Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 3 – 761.61(c) Risk Based Cleanup and Disposal Request

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This attachment presents the information required to support a 761.71(c) determination for the areas of interest (AOI) 05-1/05-5 light non-aqueous phase liquids (LNAPL) Areas.

1. Area Background and History

The AOI 05-1/05-5 LNAPL Areas are located at the Northend of the Site in the central portion of the former Factory 05 footprint. The AOI 05-1 LNAPL Area is presumably due to historical releases associated with operations and the AOI 05-5 LNAPL Area is thought to be associated with a historic release of approximately 5,000 gallons of oil in this area. LNAPL associated with the AOI 05-1/05-5 LNAPL Areas have been identified in wells 43-161, 43-162, 43-163, 43-164, 43-165, MW-05-04, RFI-05-13, RFI-05-14, RFI-05-11, RW-05-East, RW-05-North, DH-RW-1 through 3, TW-05-05-1, TW-05-05-2, TW-05-05-05 TW-DH-RW-01-01, TW-DH-RW-01-07, TW-DH-RW-03-02, TW-DH-RW-03-05, TW-43-165-02, and TW-43-165-04 (**Figure B3-1**).

2. Summary of SOPs and Investigation Results

The AOI 05-1/05-5 LNAPL Areas have been previously investigated as part of the Site's RCRA Facility Investigation activities. The RFI Work Plan presents the standard operating procedures, field sampling procedures, quality assurance/quality control procedures, etc. used during the investigation. The results of the investigations (including laboratory analytical reports) were presented in the RFI Phase I and RFI Phase II reports.

3. Nature of Contamination

At AOI 05-1/05-5, samples of LNAPL, soil and groundwater have been analyzed for PCBs. Below is a brief summary of results.

- LNAPL samples were collected from 17 monitoring wells, recovery wells, and/or temporary wells. PCBs were detected in 15 samples at concentrations ranging from 4.6 parts per million (ppm) to 200 ppm (**Figure B3-1**).

- A total of 156 soil samples collected from the AOI 05-1/05-5 Areas were analyzed for PCBs. Sixty-seven of the samples detected PCBs, 25 of which detected PCBs at levels less than 1 ppm. Four soil samples detected PCBs at a concentration greater than 25 ppm. The maximum soil detection was 54 ppm (**Figure B3-2**).
- Twelve groundwater samples collected from wells in the AOI 05-1/05-5 area were analyzed for PCBs. No PCBs were detected in the groundwater samples.

4. Extent of Impacts

The PCB impacts at AOI 05-1/05-5 LNAPL Areas are associated with the LNAPL. **Figure B3-1** shows the approximate extent of the AOI 05-1 and AOI 05-5 LNAPL Areas. The extent of PCB impacts at each area are further discussed below.

- At the AOI 05-1 LNAPL Area, additional investigation activities were completed at DH-RW-1, DH-RW-2, DH-RW-3, and 43-165 to delineate the extent of PCBs and LNAPL. A total of 126 soil samples were collected from 13 soil borings and 28 temporary well locations and submitted for laboratory analysis of PCBs. Although PCBs were detected in 58 of the soil samples, only four samples exceeded NDC criteria (22-54/16 mg/kg). PCBs concentrations in LNAPL samples ranged from 4.6 to 200 ppm. The locations of the soil borings and wells are presented on **Figure B3-2.**
- At the AOI 05-5 LNAPL Area, additional investigation activities were completed to further delineate the extent of PCBs and LNAPL. A total of 20 soil samples were submitted for PCB analysis. PCBs were detected in four samples at concentrations ranging from 3.4 to 12 ppm. LNAPL samples detected PCBs at concentrations ranging from non-detect to 159 ppm. The locations of the soil borings and temporary wells are presented on **Figure B3-3.**
- Soil samples were also collected from the two monitoring wells (MW-05-11 and MW-05-13) installed along the Outfall 003 storm sewer main to investigate impacts adjacent to the sewer main. A total of four soil samples were collected and submitted for laboratory analysis of PCBs. PCBs were not detected in these samples. The locations of the monitoring wells are presented on **Figure B3-1**.
- Based on the LIF and soil boring log data, approximate depth impacts are approximately 5 to 13.5 in the eastern side of the AOI 05-1 LNAPL Area and 11.5 to 16 feet bgs in the western portion of the AOI 05-1 area (beneath the former Factory 05 building slab).

5. Risk-Based Procedure

Targeted soil excavations are proposed at recovery wells DH-RW-1, DH-RW-2, and DH-RW-3 and monitoring wells 43-165 and RFI-05-11 to remove PCB impacts greater than 25 ppm. The PCB impacts have been delineated by soil boings and temporary wells, as shown on **Figures B3-2 and B3-3**; however, additional delineation will be completed to further refine the extents prior to excavation activities. The scope of work for additional delineation will be included in a remedy implementation work plan and/or basis of design documentation, as appropriate. The work plan will include the detailed scope for the excavation activities; however a brief summary of the plan is provided below:

- Complete investigation work necessary to refine the extents of the excavation.
- Prior to excavation, LNAPL will be removed from wells in the area of excavation to minimize accumulation during excavation.
- Complete excavation to the water table (that averages a depth of 10 feet bgs). It is planned that the excavation will be completed when the water table is at its lowest to maximize removal of impacted soils.
- LNAPL-impacted soils removed during remediation activities completed at AOI 05-1/05-5 will be characterized and disposed of using “as found” concentrations.

LNAPL removed from the wells during excavation activities are requested to be disposed of as follows:

- DH-RW-1 Excavation Area – A historic waste characterization sample collected from a tote associated with recovery well DH-RW-1 detected PCBs at a concentration of 53 ppm; however, a recent LNAPL sample collected from DH-RW-1 detected PCBs at 40 ppm. In addition, the LNAPL sample collected from delineation well TW-DH-RW-1-7 detected PCBs at a concentration of 30 ppm. It is requested that LNAPL removed from the DH-RW-1 area be disposed of at “as found” concentrations.
- DH-RW-2 Excavation Area – A historic waste characterization sample collected from a tote associated with recovery well DH-RW-2 detected PCBs at a concentration of 25 ppm and a recent LNAPL sample collected from DH-RW-2 detected PCBs at 23 ppm. It is requested that LNAPL removed from the DH-RW-2 area be disposed of at “as found” concentrations.
- DH-RW-3 Excavation Area – A historic waste characterization sample collected from a tote associated with recovery well DH-RW-3 detected PCBs at a concentration of 117 ppm and a recent LNAPL sample collected from DH-RW-3 detected PCBs at 90 ppm. In addition, the LNAPL samples collected from delineation wells TW-DH-RW-3-2 and TW-DH-RW-3-5 detected PCBs at concentrations 200 ppm and 70 ppm, respectively. LNAPL removed from the DH-RW-3 area will be disposed of as TSCA waste.

- 43-165 Excavation Area– LNAPL samples collected from wells 43-165, TW-43-165-2, and TW-43-165-4 were submitted for PCB analysis. PCBs were detected at concentrations ranging from 23 to 33 ppm. It is requested that LNAPL removed from the 43-165 area be disposed of at "as found" concentrations.
- RFI-05-11 Excavation Area – LNAPL samples collected from wells RFI-05-11, RW-05-East, RW-05-North, TW-05-05-1, and TW-05-05-2 were submitted for PCB analysis. The sample collected from RW-05-East did not exhibit detectable concentrations of PCBs; however the remaining samples detected PCBs at concentrations ranging from 25 ppm to 159 ppm. It is requested that LNAPL removed from the RFI-05-11 area be disposed of at as found concentrations.

Following completion of the targeted excavation, portions of the AOI 05-1/05-5 Areas will be restricted to low occupancy use. In the event that concentrations of PCBs exceeding the MDEQ Part 201 nonresidential direct contact criteria (16 ppm) are left in place, surface cover maintenance and restrictions will be implemented. Additional restrictions placed on the AOI 05-1/05-5 LNAPL Areas to protect future users from PCB impacts will include the Site-wide deed restrictions as noted in the main report and these AOI-specific deed restrictions:

- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads, as shown on **Figure 5 in the main report**.
- Prohibit any excavation or other intrusive activity that could affect the integrity of the surface cover that is present to prevent direct contact with contaminated material, except with using appropriate health and safety measures, during short-term construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the surface cover, that could affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original barrier within a reasonable timeframe. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the Natural Resources and Environmental Protection Act.
- Require that any intrusive activities (i.e., excavation, repair of foundation or subsurface utilities, short-term construction and landscaping projects) into the subsurface beneath the cap must be consistent with MIOSHA requirements, including the use of a Health and Safety Plan and a trained professional to evaluate the Site data prior to initiating activities. All relevant Site data must be made available for the preparation of the Health and Safety Plan. Data may be made available as part of the Due Care Plan, RFI, or other document(s).
- Notification to future property owners to the presence of PCBs, and

- Restrict the area shown on **Figure B3-1** to low occupancy based on the presence of PCBs.

6. Evaluation of Alternatives

The following technologies were evaluated to address LNAPL at AOI 05-1/05-5:

- Targeted in-situ soil mixing/land farming using biological additives to address the petroleum constituents may be technically feasible; however, it is not a viable option based on the presence of PCBs in the LNAPL and the infiltration pathway to the Outfall 003 storm sewers.

- In situ thermal remediation may be technically feasible for the area; however, it is not a viable option based on the presence of PCBs in the LNAPL and nearby City sewers. In addition, it does not represent an economically feasible remedial alternative given the relatively large area that would need to be addressed in order to avoid the generation of dioxins.

- AOI 05-1/05-5 LNAPL Areas constituents have low volatility rendering remedial technologies that rely on vapor-phase partitioning infeasible on a technical basis.

- Enhanced dissolution and recovery via surfactant or hot water flushing may be feasible; however, it is not a viable option based on the presence of PCBs in the LNAPL and the infiltration pathway to the Outfall 003 storm sewers. The use of surfactant would increase mobility and therefore, likely increase the PCB-impacted LNAPL infiltration into the storm sewer.

BLDG. 20

RACK STORAGE

30E

30A

AOI 03-1

BLDG. 30

30C

AOI 05-1

AOI 05-2

AOI 05-5

BLDG. 43

AOI 05-6

TW-05-05-1
PCBs – 25 ppm

RW-05-EAST
PCBs – 120 ppm

RW-05-NORTH
PCBs – ND

RFI-05-11	TW-05-05-2	RFI-05-13	DH-RW-1	43-162	DH-RW-2	TW-DH-RW-3-2	DH-RW-3	RFI-05-14	TW-DH-RW-3-5	TW-43-165-2	43-165	TW-43-165-4
PCBs – 159 ppm	PCBs – 83 ppm	PCBs – ND	PCBs – 40 ppm	PCBs – 20 ppm	PCBs – 23 ppm	PCBs – 200	PCBs – 93 ppm	PCBs – 4.6 ppm	PCBs – 70 ppm	PCBs – 23 ppm	PCBs – 33 ppm	PCBs – 30 ppm

EMPLOYEE PARKING

STORAGE AREA

99

NG

INDUSTR

LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- APPROXIMATE LOCATION OF RECOVERY TRENCH
- PROPOSED AREA RESTRICTED TO LOW OCCUPANCY

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 60' 120'
APPROXIMATE SCALE IN FEET

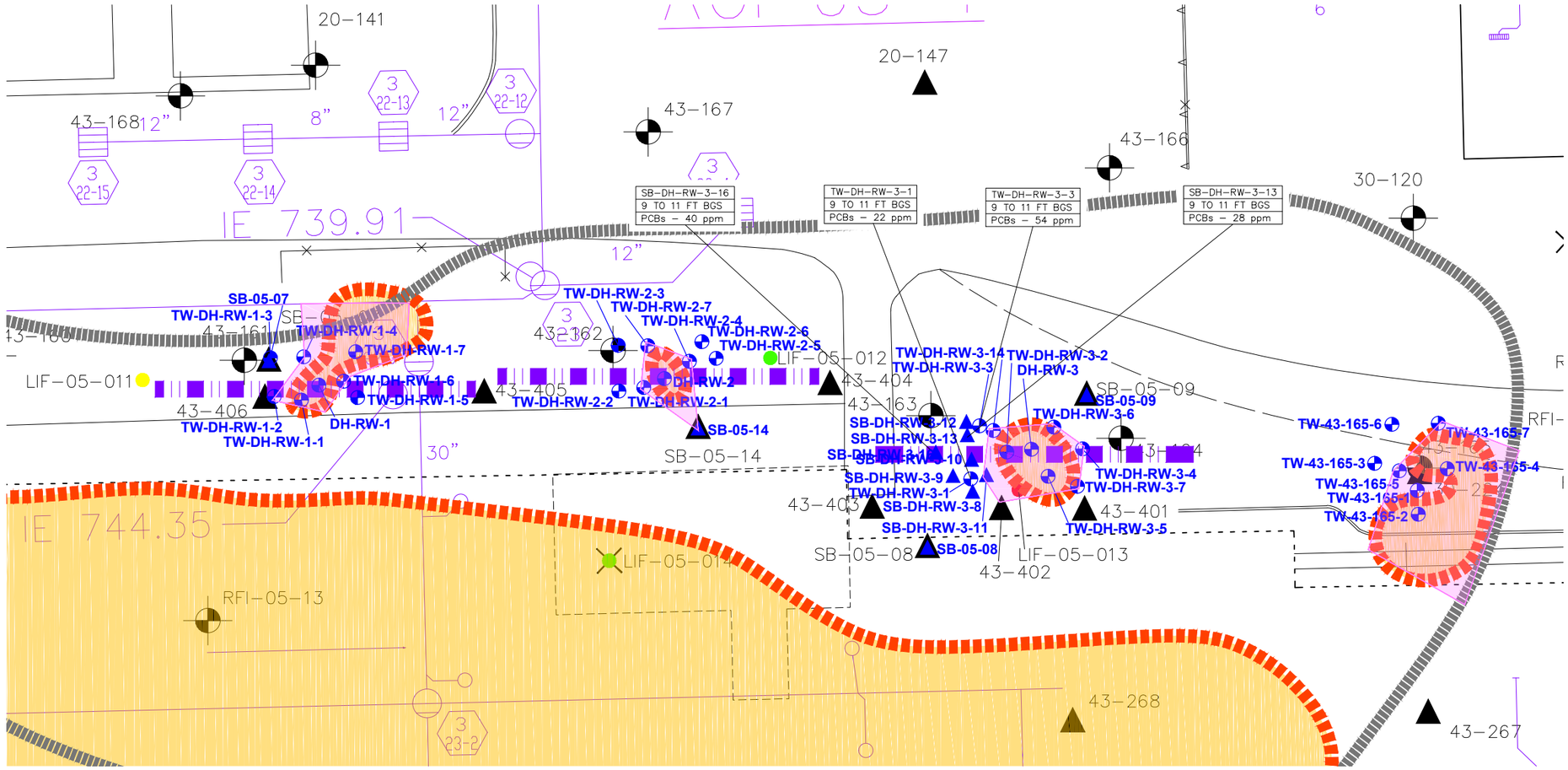
RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 05-1/05-5
PCB CONCENTRATIONS IN LNAPL AND EXTENTS OF LOW OCCUPANCY RESTRICTIONS

ARCADIS

FIGURE
B3-1

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\00644410\20140020\IB\64410_AOI 05-1-5.dwg LAYOUT: B3-1 SAVED: 9/4/2014 10:43 AM ACADVER: 18.1S (LMS TECH)
IMAGES: PROJECTNAME: ----
PLOTSTYLETABLE: ---- PAGESETUP: ---- PLOTTED: 9/4/2014 11:03 AM BY: SANCHEZ, ADRIAN



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- PROPOSED AREA OF EXCAVATION
- APPROXIMATE LOCATION OF RECOVERY TRENCH
- STORM SEWER LINE
- TEMPORARY WELL LOCATION

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200
- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 20' 40'
APPROXIMATE SCALE IN FEET

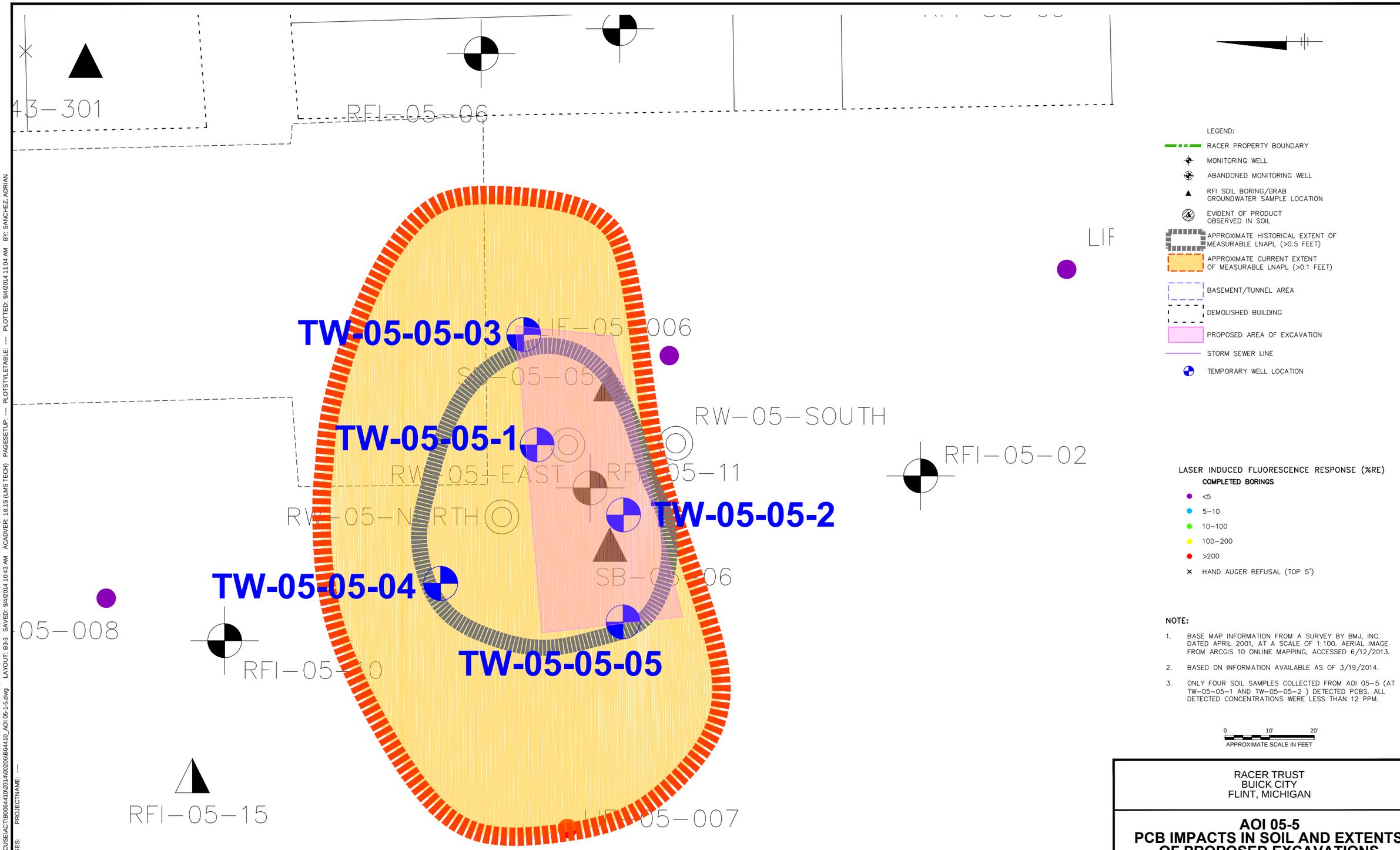
RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 05-1
PCB IMPACTS IN SOIL GREATER THAN 25 PPM AND EXTENTS OF PROPOSED EXCAVATIONS

ARCADIS

FIGURE
B3-2

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C.KIKER TM: C. KIKER LYR:ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\06644\0\2014\0022\06\B64410_AOI 05-1-5.dwg LAYOUT: B3-2 SAVED: 9/4/2014 10:43 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ----
IMAGES: PROJECTNAME: ----



NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.
3. ONLY FOUR SOIL SAMPLES COLLECTED FROM AOI 05–5 (AT TW–05–05–1 AND TW–05–05–2) DETECTED PCBS. ALL DETECTED CONCENTRATIONS WERE LESS THAN 12 PPM.

0 10' 20'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 05-5
PCB IMPACTS IN SOIL AND EXTENTS OF PROPOSED EXCAVATIONS

ARCADIS

FIGURE
B3-3

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIVE\B0064410\2014\002061\B64410_AOI 05-1-5.dwg LAYOUT: B3-3 SAVED: 9/4/2014 10:43 AM ACADVER: 18.1S (LMS TECH)
IMAGES: PROJECTNAME: --- PAGESETUP: --- PLOTSTYLETABLE: --- PLOTTED: 9/4/2014 11:04 AM BY: SANCHEZ, ADRIAN

Attachment 4

Remedy Recommendation

Priority #2 – AOI 05-1/05-5 Cutting Oil Areas Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 4 – Recommended Remedy

This attachment presents the recommended remedies for the area of interest (AOI) 05-1/05-5 Cutting Oil Areas (AOI 05-1/05-5 light non-aqueous phase liquid [LNAPL] Areas).

1. Compositional and Saturation Concerns

The LNAPL Decision Tree Analysis presented in **Attachment 2** identified groundwater/surface water interface (GSI), direct contact, particulate soil inhalation, groundwater volatilization to indoor air, and potential volatilization to indoor air for a future structure as compositional concerns for AOI 05-1/05-5 and mobility as a saturation concern. The PCB-impacted LNAPL from the AOI 05-1/05-5 LNAPL Areas is infiltrating the Outfall 003 storm sewer, which is the basis for the mobility and GSI concerns. The direct contact concern is due to the presence of PCBs in the LNAPL and lead in the soils. The volatilization to indoor air concerns are due to the exceedance of groundwater volatilization screening levels and the potential biodegradation of LNAPL generating methane which could result in indoor air quality concerns for future structures. The soil inhalation concern is due to the presence of manganese in soil.

2. Remedy Recommendation Rationale

The remedies recommended to address the compositional and saturation concerns associated with the AOI 05-1/05-5 Areas are elimination of infiltration to the Outfall 003 storm sewer, targeted excavation, and institutional controls, which are discussed in detail in Section 3. The rationale for this selection is detailed below:

- Although historic interim measures (IMs) indicated that LNAPL recovery may be feasible; LNAPL recovery systems have already operated at this area for approximately 15 years. Partial and effective LNAPL removal has already been completed and a transition to institutional controls is now appropriate to address the remaining LNAPL. Additional LNAPL removal will not materially change the risks associated with this plume so there is no cost benefit to pursuing additional LNAPL removal.

- The GSI and mobility concerns associated with the PCB-impacted LNAPL from the AOI 05-1/05-5 LNAPL Areas will be addressed by eliminating LNAPL infiltration into the Outfall 003 storm sewer and targeted removal of PCB-impacted soils. This remedy will also address the groundwater GSI concerns.
- The direct contact concerns associated with the PCBs at DH-RW-1, DH-RW-2, DH-RW-3, 43-165 and RFI-05-11 will be addressed by completing a targeted excavation, as well as implementing engineering and institutional controls, as necessary.
- The direct contact concerns associated with lead at RFI-05-21 are in surface soils (0 to 2 feet bgs) located adjacent to the proposed 43-165 excavation area; therefore, the impacts will be excavated.
- The direct contact concerns associated with lead at RFI-05-18 are from 6.9 to 8.9 ft bgs and are located beneath the former Factory 05 concrete slab; therefore, institutional controls are appropriate.
- Based on the current understanding of risk conditions, the particulate soil inhalation risk due to manganese at RFI-05-23 can be effectively mitigated by excavation or engineering controls.
- Based on the current understanding of risk conditions, the groundwater volatilization to inddor air and potential volatilization to indoor air due to the biodegradation of methane risk for future structures can be effectively mitigated through institutional controls.

3. AOI 05-1/05-5 Remedies

This section summarizes the completed and proposed remedies to address the impacts at AOI 05-1/05-5.

3.1 Completed Interim Measures

Three passive recovery trenches were installed along the east side of Factory 05 to collect LNAPL in the AOI 05-1 Area. The trenches removed LNAPL for approximately 15 years prior to being discontinued. At the AOI 05-5 LNAPL Area two recovery wells removed approximately 1,000 gallons of LNAPL prior to being discontinued. In addition, approximately 50 gallons of LNAPL was removed during the 2001 to 2005 LNAPL Bailing Program. Partial and effective removal of product has been completed in this area and is considered a component of the remedy.

3.2 Additional Remedy Recommendations

This section presents the remedies recommended to address the mobility, GSI, direct contact, soil inhalation, and volatility concerns associated with AOI 05-1/05-5 LNAPL Areas. These combined remedies will eliminate the infiltration pathway in the short term and prevent future worker exposure to LNAPL impacts in the long term.

3.2.1 Outfall 003 Pathway Elimination

In order to address the risks associated with the LNAPL infiltration into the Outfall 003 storm sewer, the pathway will be eliminated. This option may include re-routing, sealing, lining, or replacing a section of the sewer and installing collars in the backfill to eliminate the potential of migration. A feasibility study for this option is currently underway and the final cost for this option is being evaluated.

3.2.2 Targeted Excavation

3.2.2.1 PCB-Impacted Areas

In order to address the risks associated with the LNAPL containing PCBs at concentrations greater than 25 ppm, targeted excavations of LNAPL impacted soils are recommended. As discussed in **Attachment 3**, the PCB excavations are proposed to address impacts at DH-RW-1, DH-RW-2, DH-RW-3, 43-165, and RFI-05-11. The excavations will be limited by the presence of subsurface obstructions (utilities, building slabs, etc.) and additional delineation will be completed to further refine the extents prior to excavation activities. The approximate extents of excavations are presented on the **Figures B3-2 and B3-3.**

As part of a self-implementing cleanup under 40 CFR Part 761.61(c), soils containing PCBs with concentrations exceeding 25 ppm will be excavated and disposed of properly using “as found” concentrations. The excavations will take place when the water table is at its lowest to maximize removal of impacted soils. In the event that concentrations of PCBs exceeding the MDEQ Part 201 nonresidential direct contact criteria (16 ppm) are left in place, surface cover maintenance and restrictions will be implemented.

3.2.2.2 Lead Impacted Soil at RFI-05-21

The direct contact concerns associated with lead at RFI-05-21 are in surface soils (0 to 2 feet bgs) located adjacent to the proposed 43-165 excavation area; therefore, the impacts will be excavated. Additional delineation may be completed to further refine the extents prior to commencing excavation activities.

3.2.3 Manganese Impacted Soil at RFI-05-23

Based on the current understanding of risk conditions, the particulate soil inhalation risk at RFI-05-23 can be effectively mitigated by excavation or engineering controls. The impacts at RFI-05-23 are 4 to 6 ft bgs and are located adjacent to the proposed 43-165 and RFI-05-21excavation areas. Additional delineation is necessary to determine the extent of impacts and based on the results of delineation activities the manganese-impacted soils will be addressed by excavation or institutional controls, as appropriate.

3.2.4 Institutional Controls

The direct contact concerns associated with lead at RFI-05-18 occur from 6.9 to 8.9 ft bgs and are located beneath the former Factory 05 concrete slab; therefore, institutional controls are appropriate.

The following AOI-specific institutional controls, in addition to the Site-wide controls noted in the Report, will be necessary to address direct contact, soil inhalation and volatilization to limit potential for future exposure:

- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads as shown on **Figure 5 of the main report**.
- Prohibit any excavation or other intrusive activity that could affect the integrity of the surface cover that is present to prevent direct contact with contaminated material, except with using appropriate health and safety measures, during short-term construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the surface cover, that could affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original barrier within a reasonable timeframe. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the Natural Resources and Environmental Protection Act.
- Require that any intrusive activities (i.e., excavation, repair of foundation or subsurface utilities, short-term construction and landscaping projects) into the subsurface beneath the cap must be consistent with MIOSHA requirements, including the use of a Health and Safety Plan and a trained professional to evaluate the Site data prior to initiating activities. All relevant Site data must be made available for the preparation of the Health and Safety Plan. Data may be made available as part of the Due Care Plan, RFI, or other document(s).
- Notification to future property owners to the presence of PCBs, and

- Restrict the area shown on **Figure B3-1** to low occupancy based on the presence of PCBs.

Appendix C

AOI 12-A, -B, and –C Hydraulic Oil Area Remedy Recommendation Memo

ARCADIS of Michigan, LLC
28550 Cabot Drive
Suite 500
Novi
Michigan 48377
Tel 248 994 2240
Fax 248 994 2241

MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER
Chris Peters, ARCADIS
Steve Gaito, ARCADIS

From:
Micki M. Maki
Victoria Stacey

Date:
August 29, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
Priority #4 - AOI 12-A, -B, &-C Hydraulic Oil LNAPL Areas
Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

As part of the remedy evaluation process, each of the Site's 17 LNAPL Areas were prioritized based on risk. The area of interest (AOI) 12-A, -B, & -C Hydraulic Oil LNAPL Areas (AOI 12-A, -B, & -C LNAPL Areas) are ranked as Priority #4 with a total potential risk score of 12 (**Table 5 of the main report**). A conceptual site model cross-section is attached (**Figure C-1)** that provides an overview of the AOI 12-A, B, & -C LNAPL Areas impacts.

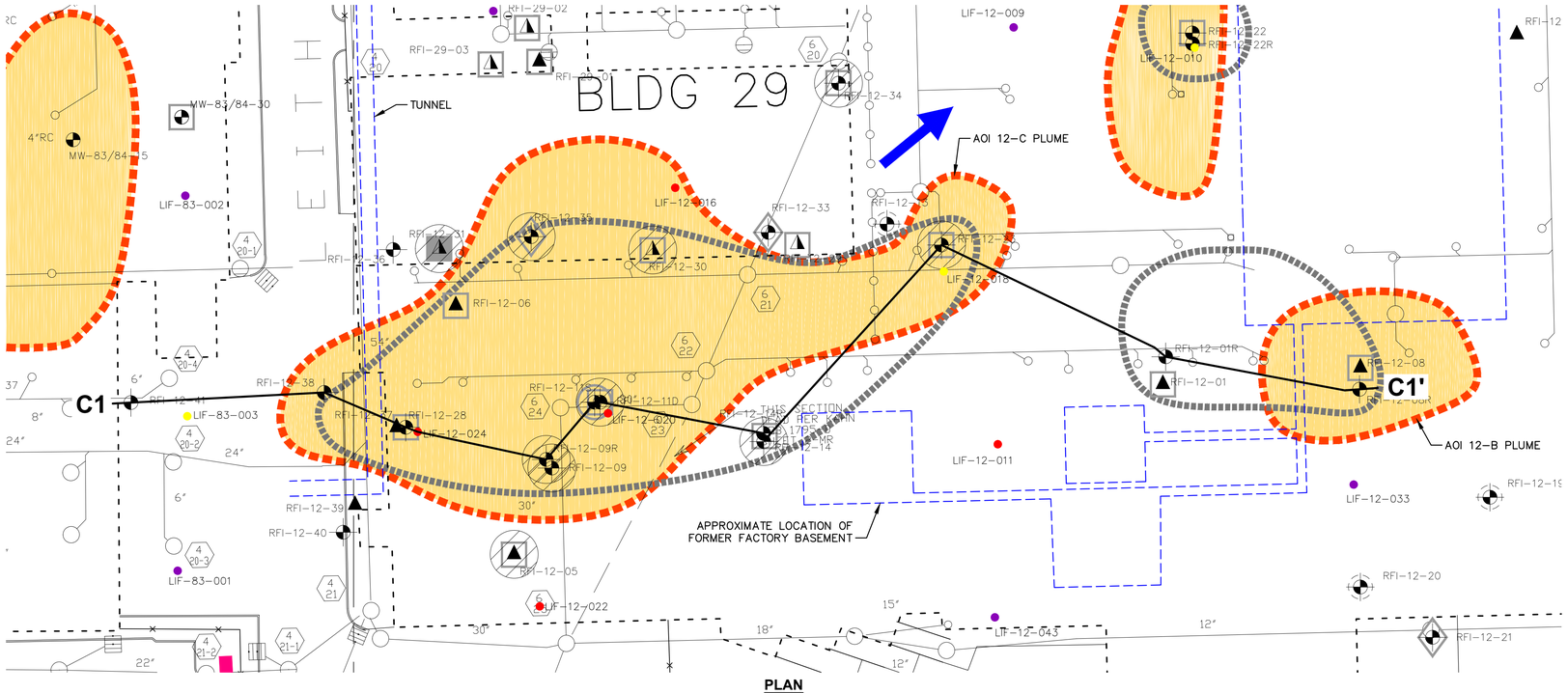
Historical IMs completed at the AOI 12-A, B, & -C LNAPL Areas include a product recovery system and an LNAPL bailing program. Partial removal of product completed in this area is considered a component of the remedy.

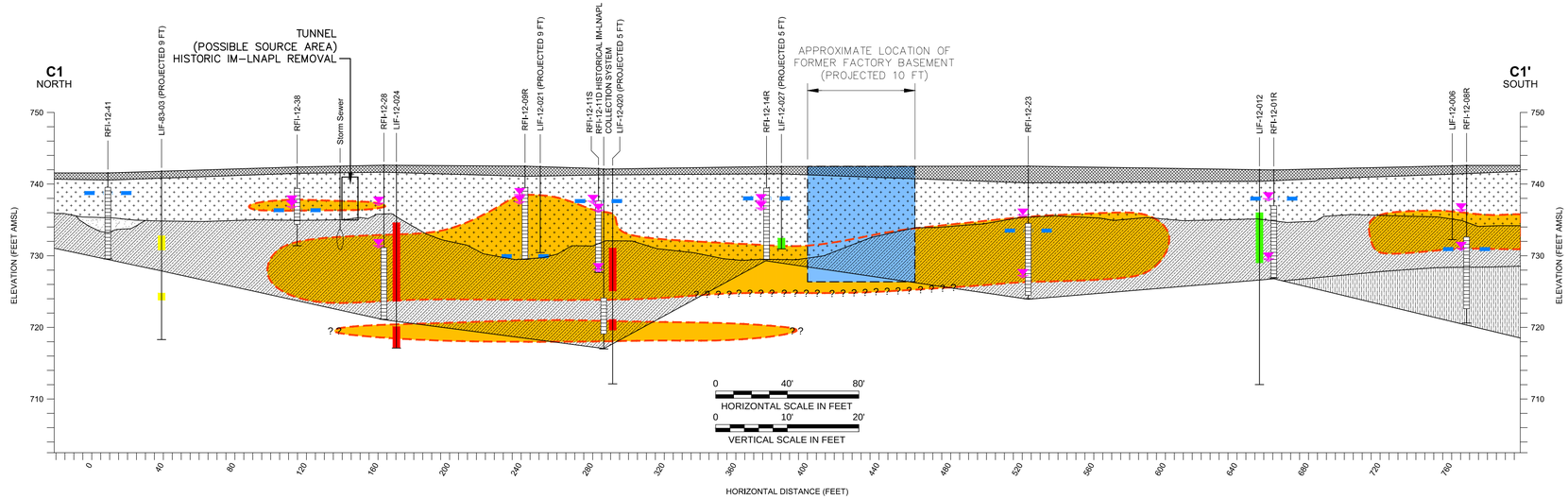
The compositional and saturation concerns identified for the AOI 12-A, B, & -C LNAPL Areas were evaluated in the LNAPL decision tree (**Attachment 2**) and are summarized below:

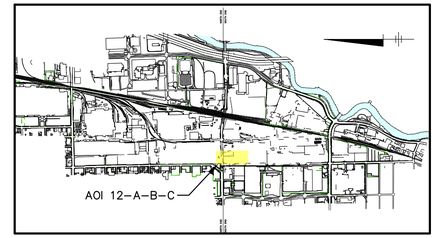
- Theoretically, there is a potential unacceptable vapor phase exposure risk associated with methane for future redevelopment scenarios due to the biodegradation of LNAPL generating methane; however, this will be addressed by the proposed institutional controls.
- The unacceptable groundwater/surface water interface (GSI) risks will be addressed by the proposed Outfall 004 infiltration elimination remedy.

- The particulate soil inhalation concern can effectively be mitigated by the maintenance of existing surface cover as an engineering control.
- No feasible options exist to mitigate unacceptable risk through compositional change.
- The LNAPL is mobile and is infiltrating the Outfall 004 storm sewer.
- The LNAPL is not readily recoverable.
- LNAPL in the vicinity of monitoring well RFI-12-38 contains PCBs at a concentration of 8.6 parts per million. Due to the nature and extent of PCB impacts, it is requested that the impacts at AOI 12-A, -B, & -C be allowed to remain in place and the area be designated as low occupancy [per 761.61(a)(4)(i)(B)].

Based on the current understanding of conceptual site model risks, the remedies recommended to address the GSI, particulate soil inhalation, PCB, potential volatilization to indoor air, and mobility concerns associated with AOI 12-A, -B, & -C LNAPL Areas are to eliminate the Outfall 004 infiltration pathway, to maintain existing surface cover, to designate portions of the AOI 12-A, -B, and -C LNAPL Area as low occupancy, and to establish institutional controls.







SITE MAP

0 2000' 4000'
SCALE IN FEET

AOI 12-A, -B, AND -C HYDRAULIC OIL AREA

KEY LNAPL COMPOSITION AND SATURATION CONCERNS

1) LNAPL AND IMPACTED GROUNDWATER INFILTRATION TO OUTFALL 004 STORM SEWER
2) PARTICULATE SOIL INHALATION CONCERN FOR MANGANESE
3) POTENTIAL VOLATILIZATION TO INDOOR AIR CONCERN FOR FUTURE STRUCTURES

COMPLETED INTERIM MEASURES AND RECOMMENDED REMEDIES

R-1) LNAPL RECOVERY WAS ATTEMPTED AT TWO (2) RECOVERY WELLS (RFI-12-02/02R AND RFI-12-11-D) FOR ~2 YEARS; HOWEVER, REMOVAL WAS NOT SUCCESSFUL

R-2) OUTFALL 004 PATHWAY ELIMINATION

R-3) 004 RECOVERY TRENCH MONITORING

R-4) MAINTAIN SURFACE COVER

R-5) INSTITUTIONAL CONTROLS

NOTES:

1. BASE MAP INFORMATION FROM SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.
2. BASED ON INFORMATION AVAILABLE AS OF 03.19.2014.
3. FILL MATERIAL CONSIST PRIMARILY OF SAND AND SILT.

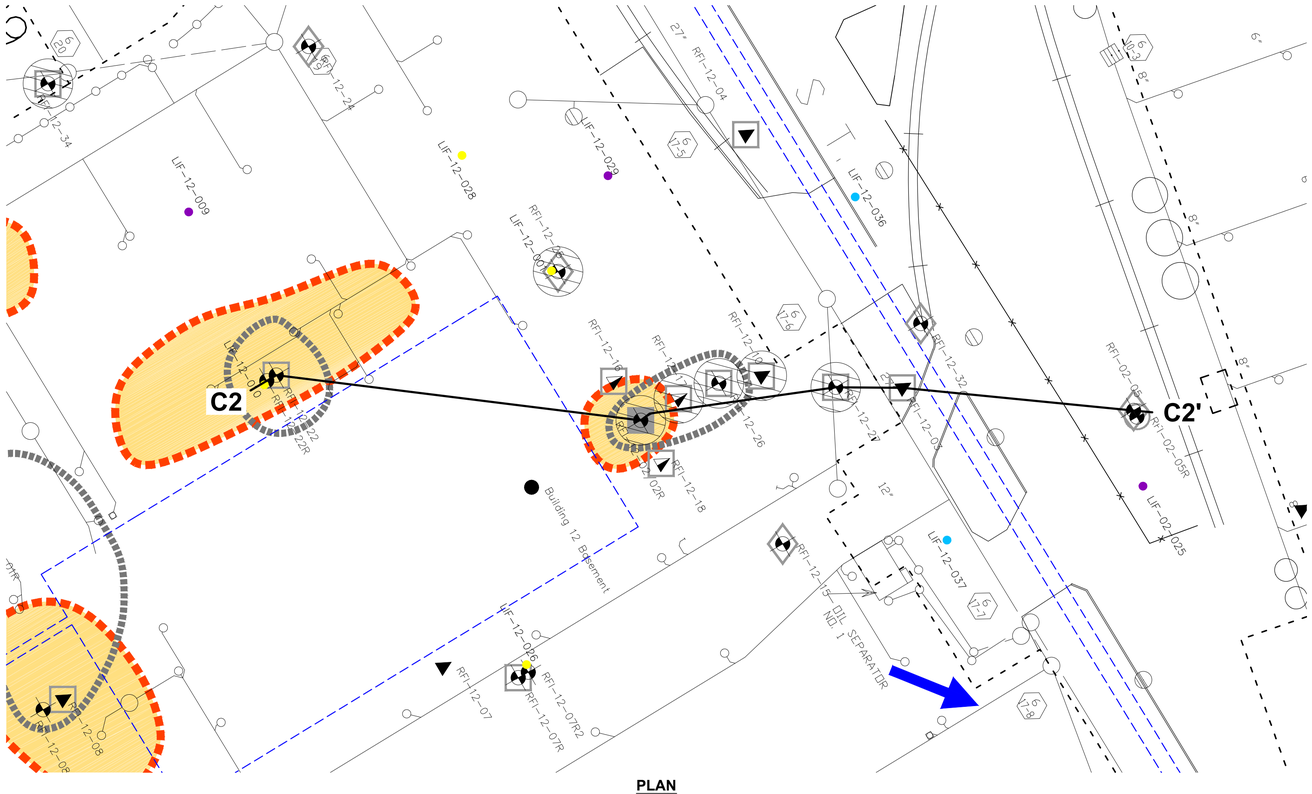
RACER TRUST
BUICK CITY, FLINT, MICHIGAN

AOI 12-A, -B, AND -C CONCEPTUAL SITE MODEL CROSS SECTION C1-C1'

ARCADIS

FIGURE
C-1

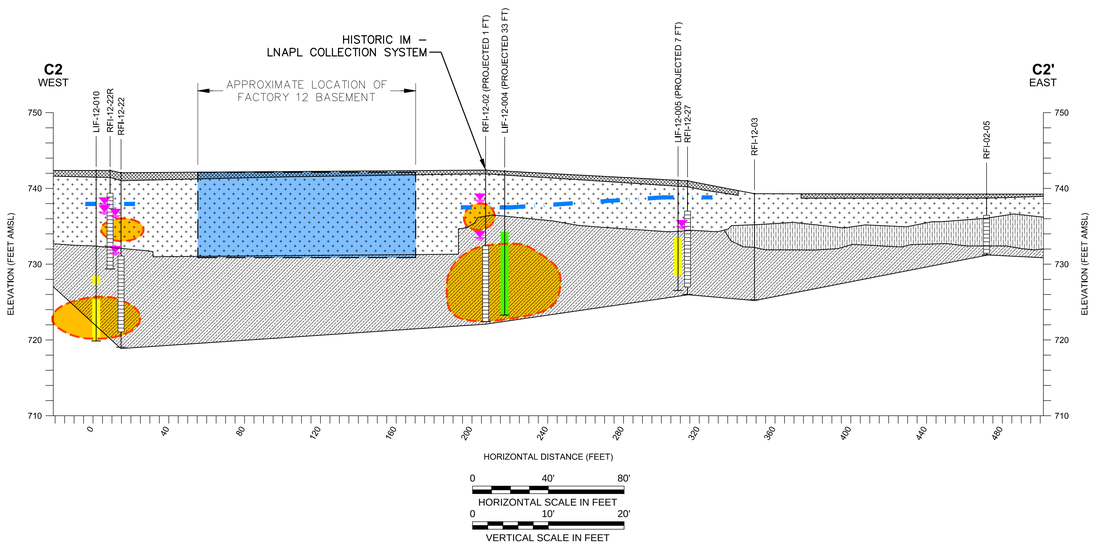
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IMAGES: PROJECTNAME: ---
PAGESETUP: ---- PLOTSTYLETABLE: BBL-FULL.CTB PLOTTED: 9/3/2014 4:50 PM BY: SANCHEZ, ADRIAN



PLAN

0 40' 80'

GRAPHIC SCALE

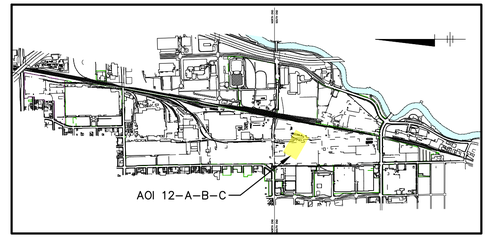


0 40' 80'

HORIZONTAL SCALE IN FEET

0 10' 20'

VERTICAL SCALE IN FEET



SITE MAP

0 2000' 4000'

SCALE IN FEET

AOI 12-A, -B, AND -C HYDRAULIC OIL AREA

KEY LNAPL COMPOSITION AND SATURATION CONCERNS

1) LNAPL AND IMPACTED GROUNDWATER INFILTRATION TO OUTFALL 004 STORM SEWER
2) PARTICULATE SOIL INHALATION CONCERN FOR MANGANESE
3) POTENTIAL VOLATILIZATION TO INDOOR AIR CONCERN FOR FUTURE STRUCTURES

COMPLETED INTERIM MEASURES AND RECOMMENDED REMEDIES

R-1) LNAPL RECOVERY WAS ATTEMPTED AT TWO (2) RECOVERY WELLS (RFI-12-02/02R AND RFI-12-11-D) FOR ~2 YEARS; HOWEVER, REMOVAL WAS NOT SUCCESSFUL

R-2) OUTFALL 004 PATHWAY ELIMINATION

R-3) 004 RECOVERY TRENCH MONITORING

R-4) MAINTAIN SURFACE COVER

R-5) INSTITUTIONAL CONTROLS

NOTES:

1. BASE MAP INFORMATION FROM SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.
2. BASED ON INFORMATION AVAILABLE AS OF 03.19.2014.
3. FILL MATERIAL CONSIST PRIMARILY OF SAND AND SILT.

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AOI 12-A, -B, AND -C CONCEPTUAL SITE MODEL CROSS SECTION C2-C2'

ARCADIS

FIGURE
C-2

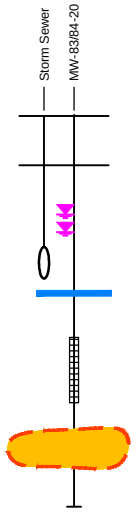
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IMAGES: PROJECTNAME: ---
PAGESETUP: ---- PLOTSTYLETABLE: BBL-FULL.CTB PLOTTED: 9/3/2014 4:51 PM BY: SANCHEZ, ADRIAN

LEGEND

- PROPERTY BOUNDARY
- HISTORICAL LNAPL EXTENT
- CURRENT LNAPL EXTENT
- STORM SEWER
- ABANDONED STORM SEWER LATERAL
- APPROXIMATE LOCATION OF RECOVERY TRENCH
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- A1 — A1' LINE OF SECTION
- RFI MONITORING WELL LOCATION
- MONITORING WELL LOCATION
- RECOVERY WELL (NAPL) LOCATION
- PIEZOMETER LOCATION
- SOIL BORING LOCATION
- DECOMMISSIONED WELL LOCATION
- EVIDENCE OF PRODUCT OBSERVED IN SOIL

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

- <5
- 5–10
- 10–100
- 100–200
- >200
- HAND AUGER REFUSAL (TOP 5')
- GROUNDWATER SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- GROUNDWATER SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- SOIL SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES DO NOT EXCEED APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES EXCEED ONE OR MORE APPLICABLE CRITERIA



- WELL/BORING ID
- EXISTING GRADE
- LITHOLOGICAL CONTACT (DASHED WHERE INFERRED)
- NAPL LEVEL (HISTORIC HIGH AND LOW LEVELS)
- WATER TABLE
- WELL SCREEN
- APPROXIMATE EXTENT OF LNAPL
- WELL/BORING BOTTOM
- ASPHALT
- CONCRETE
- CLAY
- FILL
- GRAVEL
- INTERBEDDED SAND AND CLAY
- INTERBEDDED SANDS AND SILTS
- INTERBEDDED SILT AND CLAY
- SAND
- SILT
- SILTY SAND

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FLINT, MICHIGAN

CROSS SECTION LEGEND

ARCADIS

FIGURE
C-3

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
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Xr64410X01
Xr64410XLIFsp2
Xr64410X01
Xr64410XAOI
Xr64410XLNAPL

Attachment 1

LNAPL Conceptual Site Model

Priority #4 - AOI 12-A, -B, &-C Hydraulic Oil LNAPL Areas Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 1 - Conceptual Site Model

This attachment presents a conceptual site model for the area of interest (AOI) 12-A, -B, & -C Hydraulic Oil light non-aqueous phase liquid (LNAPL) Areas (AOI 12-A, -B, &-C LNAPL Areas). AOI 12-A, -B, & -C is located at the Buick City Site (Site) located in Flint, Michigan (**Figure C1-1**).

1. Background

The AOI 12-A, -B, & -C LNAPL Areas are located at the Southend of the Site in the northwestern and eastern portions of the former Building 12 footprint (**Figure C1-2**). Historically, the Building 12 Area was primarily used for underbody assembly and body panel assembly. The AOI 12-A, -B, &-C LNAPL Areas are presumably due to historical releases associated with operations in this area and may be co-mingled.

Investigation data previously presented in Site reports are not re-presented in this memo. However, pertinent AOI 12-A, -B, &- C investigation data that has not previously been presented in a Site report is attached.

2. Former Interim Measures

2.1 LNAPL Monitoring and Bailing Program

During the Site-wide LNAPL monitoring program conducted from 2003 through 2005, a total of approximately 7.4 gallons of LNAPL was recovered during 10 quarterly bailing events in the AOI 12-A, -B, & -C area.

2.2 Product Recovery System

In 2003, two LNAPL collection systems were installed at RFI-12-02 and RFI-12-11D in response to the observation of LNAPL discovered in wells in the northwestern and eastern portions of the former Building 12. Due to the high viscosity of the LNAPL, the collection systems failed to collect a reasonable amount of LNAPL. The systems were dismantled prior to 2006.

3. AOI 12-A, -B, &-C Site Setting and Data Summary

This section provides a summary of the geology, hydrogeology, analytical data, and LNAPL characteristics and extent of impacts for the AOI 12-A, -B, & -C LNAPL Areas. Soil Impacts at AOI 12-A, -B, & -C were addressed in the U.S. EPA Final Decision and Response to Comments for Soil and Groundwater Cleanup (U.S.EPA, 2010) issued for the Southend of the Site and are not discussed herein.

Figure C1-2 presents the locations of the existing and abandoned monitoring wells and soil borings at AOI 12-A, -B, &-C.

3.1 AOI 12-A, -B, &-C Geology and Hydrogeology

- *Geology:* The soils at AOI 12-A, -B, and -C consist of primarily fill material and/or sands to a depth of 6 to 9 feet bgs that are underlain by interbedded silts and clays with occasional sand lenses. The logs also indicated evidence of LNAPL impacts from as shallow as 3 feet bgs and as deep as 23 feet bgs, across the area.

- *Groundwater/LNAPL Levels:* Groundwater/LNAPL gauging data show that the depth to groundwater in this area varies greatly and has been measured as shallow as 1.9 feet bgs, as deep as 13.8 feet bgs, and averages around 5 feet bgs. Most recently, in June 2013, product thicknesses ranged from 0.63 to 11.79 feet in the AOI 12-A, -B, & -C monitoring wells. The June 2013 groundwater level data are presented in **Appendix X.** A brief description of the extents of the AOI 12-A, -B and –C LNAPL Areas is provided below.

    - The AOI 12-A LNAPL Area is defined by six monitoring wells in the southeastern portion of AOI 12-A, -B, & -C. LNAPL thicknesses greater than 0.1 feet have been measured at two of the monitoring wells (RFI-12-02R and RFI-12-22R). At RFI-12-26 historically LNAPL thicknesses of up to 0.39 feet were measured; however, during recent years minimal LNAPL thicknesses have been measured intermittently. At the remaining three monitoring wells (RFI-12-15, RFI-12-25, and RFI-12-27), sheens and small amounts (0.01 feet) of LNAPL are measured intermittently.

    - The AOI 12-B LNAPL Area consists of two monitoring wells (RFI-12-01R and RFI-12-08R) located in the southwestern portion of AOI 12-A, -B, &-C. At RFI-12-01R, historically, LNAPL thicknesses of up to 1.72 feet were measured; however, in recent years LNAPL has not been detected at RFI-12-01R. At RFI-12-08R, LNAPL has been measured at thicknesses ranging from 0.89 to 3.42 feet.

    - The AOI 12-C LNAPL Area consists of seven monitoring wells (RFI-12-09R, RFI-12-11D, RFI-12-14, RFI-12-23, RFI-12-28, RFI-12-35, and RFI-12-38)

located in the northern portion of AOI 12-A, -B, &-C. LNAPL has generally been measured at thicknesses greater than 0.1 feet at these wells with the exception of RFI-12-14 where 0.01 to 0.02 feet of LNAPL is measured intermittently.

Based on historic groundwater level gauging data, groundwater flow in this portion of the Site is generally to the southeast However, based on the proximity of several monitoring wells within AOI 12-B to the Outfall 004 storm sewer, a portion of the groundwater within these AOIs infiltrates the Outfall 004 sewer. Groundwater level data are presented in **Appendix X.**

3.2 Groundwater and Soil Analytical Data

Analytical data were compared to applicable Michigan Part 201 non-residential criteria.

3.2.1 Groundwater Analytical Data

The groundwater data in the AOI 12-A, -B, & -C area indicates that no constituents were detected above applicable non-residential criteria.

3.2.2 Soil VOC, SVOC, and Metals Analytical Data

Soil samples collected from three borings in the AOI 12-A, -B, & -C LNAPL Areas (RFI-29-01, RFI-12-02 and RFI-12-31) exceeded applicable Nonresidential Direct Contact (NDC) criteria for lead (1,500-11,000/900 mg/kg). The lead soil impacts in this area were previously addressed by the Final Decision for the Southend of the Site.

In addition, soil samples collected from two locations (RFI-12-11D and RFI-12-34) exceed Nonresidential Particulate Soil Inhalation Criteria (NPSIC) for manganese.

3.2.3 Soil PCB Analytical Data

A review of the analytical data in the AOI 12-A, -B, & -C LNAPL Areas indicates that of the 66 samples analyzed for polychlorinated biphenyls (PCBs), only nine samples detected PCBs and all detections were less than 1 part per million (ppm).

3.2.4 Groundwater/Surface Water Interface (GSI) Evaluation

While groundwater and LNAPL are infiltrating the Outfall 004 storm sewer, NPDES Plus Monitoring Program (NPMP) sampling is no longer conducted in the Outfall 004 sewer, because the dry weather flow in this sewer is directed into the Outfall 003/004 Storm Diversion and Treatment System (oil/water separator), which ultimately discharges through Outfall 003. As such, the Outfall 003 sample represents a combination of flows from the Outfall 003 and 004

storm sewers.

NPMP impacts in the Outfall 003 storm sewer are limited to a few metals. These are discussed further in **Appendix BB**. Based on review of the available data metals are likely to be addressed using a mixing zone based remedy.

3.2.5 Vapor Intrusion Evaluation

Due to the shallow nature of groundwater and LNAPL (approximately 5 feet below ground surface) at AOI 12-A, -B & -C, groundwater data were also compared to the applicable Non-Residential Screening Values For the Vapor Intrusion Pathway presented in the *Michigan Department of Environmental Quality (MDEQ) Guidance Document for the Vapor Intrusion Pathway* (further discussed in Section 3.4 of the Report). Groundwater data do not exceed applicable screening levels.

As there are no structures at the Site, the MDEQ Part 201 criteria are appropriate for comparison of soil data. As discussed in Section 3.2.2, manganese was detected at concentrations exceeding NPSIC criteria in soil samples collected from the RFI-12-11D and RFI-12-34.

3.3 LNAPL Characteristics

- *LNAPL Analytical Data:* LNAPL present at AOI 12-A, -B, &-C consists primarily of hydraulic oil. Additional analysis indicated that:

  - At AOI 12-A, the LNAPL has a viscosity of 41 to 50 centipoise (cp), interfacial tension of 12 to 22 dynes/centimeter (cm), and a specific gravity of 0.88 to 0.93. Concentrations of arsenic and lead exceed TCLP criteria; however, TCLP analysis has not been conducted.

  - At AOI 12-C, the LNAPL contains concentrations of chromium and lead that exceed TCLP criteria; however, TCLP analysis has not been conducted. Additionally, the LNAPL contains PCBs at a concentration of 8.6 ppm. The LNAPL at AOI 12-C has a viscosity ranging from 14 cp at the southern end of the area to 110 cp at the northern end of the area, interfacial tension ranging from 21 dynes/cm at the southern end of the area to 17 dynes/cm at the northern end of the area, and specific gravity ranging from 0.089 at the southern end of the area to 0.93 at the northern end of the area.

  For reference, the viscosity (at 100 degrees Fahrenheit) of olive oil is 43.2 cp and honey is 73.6 cp (Ingersoll-Rand, 1981). The LNAPL analytical data are presented in **Appendix X**.

- *Laser Induced Florescence (LIF) Data:* Forty-seven Laser induced fluorescence (LIF) borings

were completed at AOI 12-A, -B, & -C. The LIF waveform signatures observed at AOI 12-A, -B, & -C are consistent with the known LNAPL type, hydraulic oil. The vertical range of LIF impact (greater than 5%RE) at AOI 12-A, -B, & -C is typically 6 to 15 feet bgs. There are several instances where the impact extends to depths of 22 to 28 feet bgs. **Figure C1-2** presents the results of the LIF investigation and the extent of impacts associated with the AOI 12-A, -B, &-C LNAPL areas.

- *Transmissivity:* An LNAPL transmissivity study was completed at the AOI 12-A, -B, &-C LNAPL Areas, which consisted of completing four quarters of baildown testing at four monitoring wells (LIF-12-018, RFI-12-09R, RFI-12-23, and RFI-12-35. Based on LNAPL baildown test results, LNAPL transmissivities quantified at monitoring wells LIF-12-018, RFI-12-09R, and RFI-12-35 ranged from 0.01 to 0.1 square feet per day (ft^2/day), which is below the minimum range suggested by the Interstate Technology and Regulatory Council (ITRC) and the MDEQ draft standard threshold value.

  At RFI-12-23, transmissivity ranged from 0.2 to 0.4 ft^2/day, which is at the lower end of the minimum range suggested by ITRC and below the MDEQ draft standard threshold value indicating that LNAPL recovery is likely not practicable.

- *Natural Source Zone Depletion (NSZD):* An NSZD study was conducted at three locations (LIF-12-10, LIF-12-018, and LIF-12-24) that are located in the AOI 12-B and 12-C LNAPL areas. However, the results were inconclusive due to the presence of shallow groundwater and the concrete slab. The currently available testing technologies cannot reliably quantify the natural source zone depletion beneath a concrete slab.

3.4 Extent of LNAPL

During the RCES preparation, the AOI 12-A, -B, &-C LNAPL Area was calculated based on historical data. The footprint of the LNAPL area containing approximately 0.5 ft or greater of LNAPL was estimated to be approximately 60,400 square feet. Following additional delineation and investigation work at the AOI 12-A, -B, &-C LNAPL Area the revised (as discussed in Section 2.1.3 of the main report) extent is approximately 60,600 square feet.

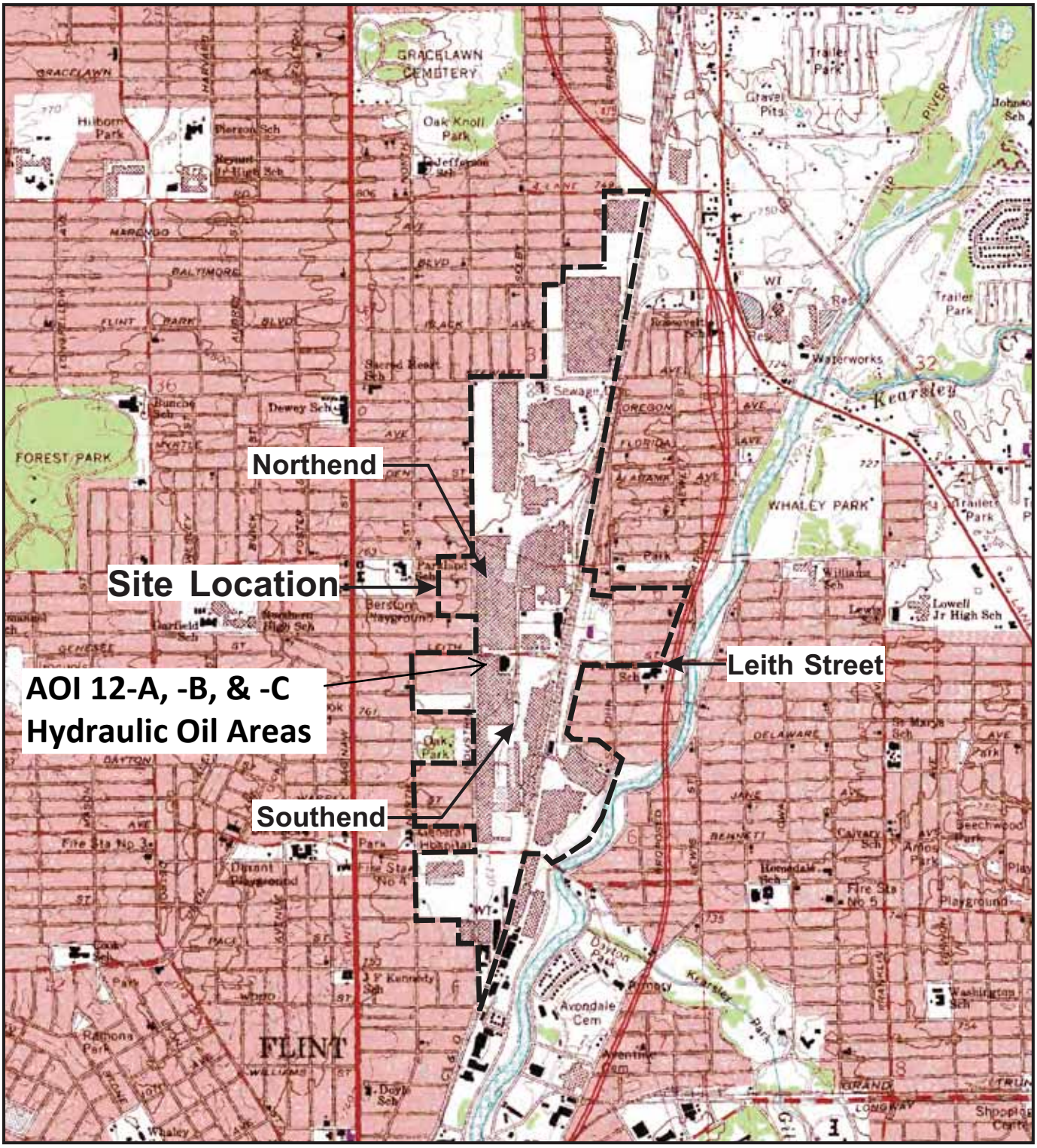
Based on the LIF and soil boring log data, approximate depth impacts are as follows:

- At AOI 12-A, the depth of LNAPL impacts are approximately 5 to 13 feet bgs.
- At AOI 12-B, the depth of LNAPL impacts are approximately 6 to 13 feet in the western portion of the area and 17 to 23 feet bgs in the eastern portion
- At AOI 12-C, the depth of LNAPL impacts are approximately 6 to 16 ft bgs in the northern and

southern portions of the area and 11 to 23 feet bgs in the center of the area.

ARCADIS

Figures



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quad., Flint North, Mich. (1969, Photorevised 1975).

2000' 0 2000'

Approximate Scale: 1" = 2000'



Area Location

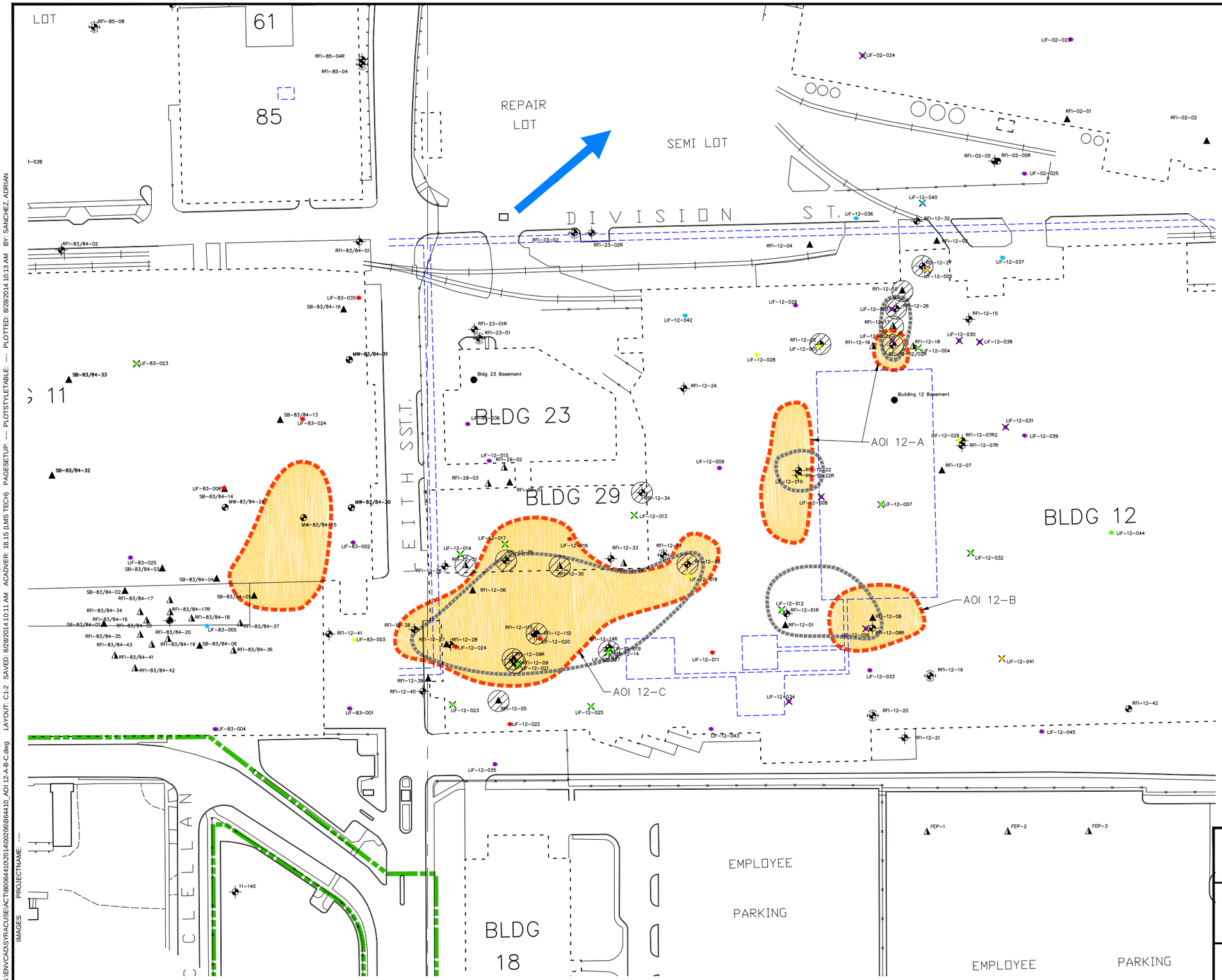
RACER TRUST
BUICK CITY, FLINT, MICHIGAN

SITE LOCATION MAP

ARCADIS

FIGURE
C1-1

03/12/2012 SYRACUSE, NY-ENV/CAD-141-DJHOWES
B0064410/2012/01202/CDR/64410N01.CDR



NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

RACER TRUST
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AOI 12-A, -B, AND -C INVESTIGATION LOCATIONS AND LNAPL EXTENTS

ARCADIS

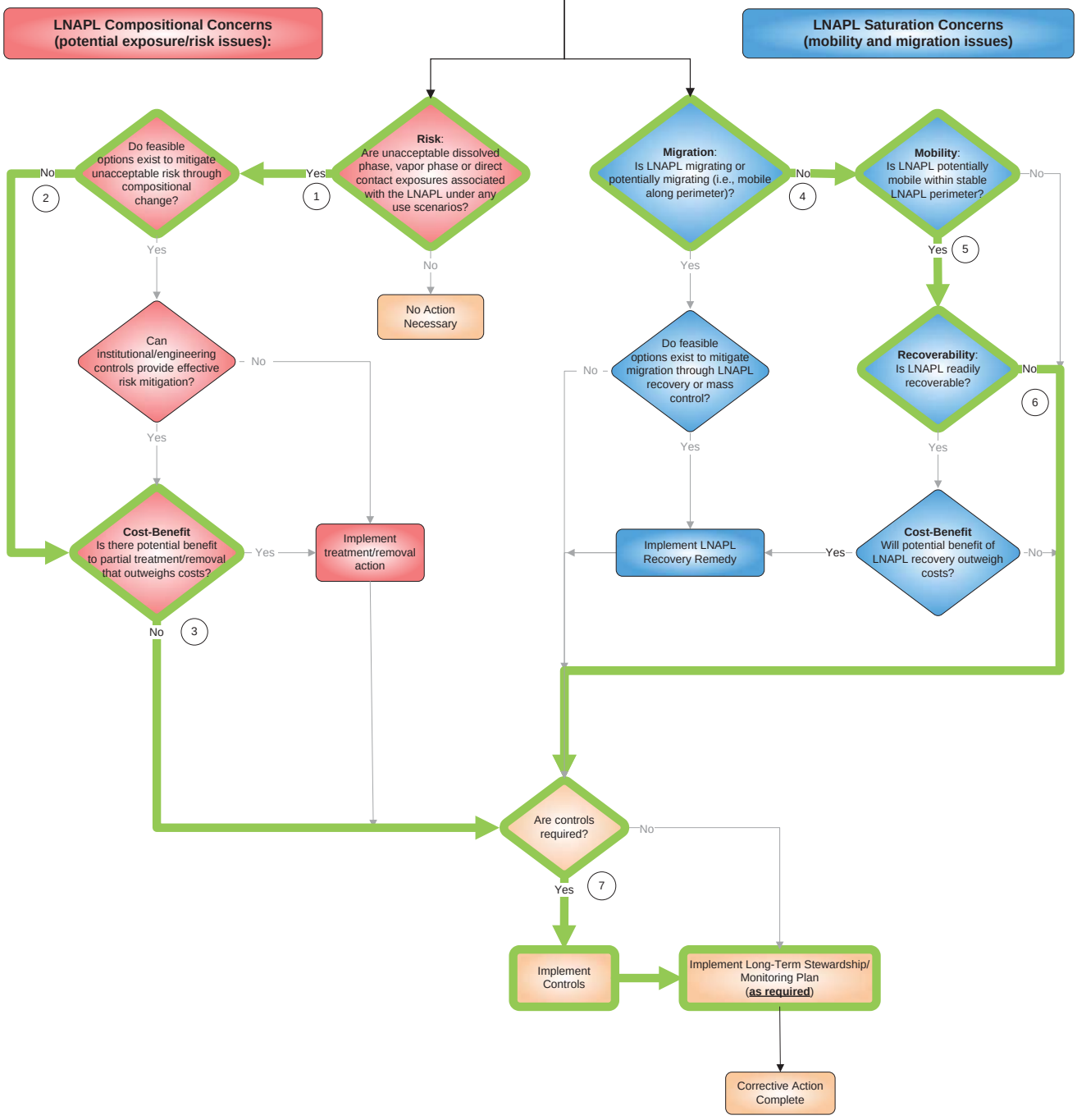
FIGURE
C1-2

CITY: SYRACUSE DV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\0064410\2014\00206\B64410_AOI 12-A-B-C.dwg LAYOUT: C1-2 SAVED: 8/28/2014 10:11 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 8/28/2014 10:13 AM BY: SANCHEZ, ADRIAN
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Attachment 2

LNAPL Remedial Decision Tree

Attachment 2 LNAPL Remedial Decision Tree
Priority #4 – AOI 12 – A, B, and C (Hydraulic Oil Areas)



NOTES

(#) NOTES: See Page C2-2

Please see Appendix W for the LNAPL Remedial Decision Tree Template that lists additional sources of pertinent information used in the evaluation of the decision points (i.e. tables).

Attachment 2 Notes

Priority #4 - AOI 12-A, -B, &-C Hydraulic Oil Areas

Background: The area of interest (AOI) 12-A, -B, & -C light non-aqueous phase liquid (LNAPL) Areas are located at the Southend of the Site in the northwestern and eastern portions of the former Building 12 footprint. Historically, the Building 12 Area was primarily used for underbody assembly and body panel assembly. The AOI 12-A, -B, &-C LNAPL Areas are presumably due to historical releases associated with operations in this area and are likely co-mingled. There are currently no buildings within the AOI 12-A, -B, &-C LNAPL Area.

Geology and Hydrogeology: The soils at AOI 12-A, -B, and -C consist of primarily fill material and/or sands to a depth of 6 to 9 feet bgs that is underlain by interbedded silts and clays with occasional sand lenses. Depth to groundwater in this area varies greatly and has been measured as shallow as 1.9 feet bgs, as deep as 13.8 feet bgs, and averages around 5 feet bgs. Based on historic fluid level gauging data, groundwater flow in this portion of the Site is generally to the southeast.

LNAPL Characteristics: Logs in the AOI 12-A, -B, and -C area show evidence of LNAPL impacts from as shallow as 3 feet bgs and as deep as 23 feet bgs, across the area.

- The AOI 12-A LNAPL Area is defined by six monitoring wells in the southeastern portion of the AOI 12-A, -B, & -C Area. LNAPL thicknesses greater than 0.1 feet have been measured at two of the monitoring wells (RFI-12-02R and RFI-12-22R). At RFI-12-26, historically, LNAPL thicknesses of up to 0.39 feet were measured; however, minimal LNAPL thicknesses have been measured intermittently in recent years. At the remaining three monitoring wells (RFI-12-15, RFI-12-25, and RFI-12-27), sheens and small amounts (0.01 feet) of LNAPL are measured intermittently. At AOI 12-A, the LNAPL has a viscosity of 41 to 50 centipoise (cp), interfacial tension of 12 to 22 dynes/centimeter (cm), and specific gravity of 0.88 to 0.93. At AOI 12-A, the LNAPL contains concentrations of arsenic and lead exceeding TCLP criteria; however, TCLP analysis has not been conducted.
- The AOI 12-B LNAPL Area consists of two monitoring wells (RFI-12-01R and RFI-12-08R) located in the southwestern portion of the AOI 12-A, -B, &-C area. At RFI-12-01R, historically LNAPL thicknesses of up to 1.72 feet were measured; however, in recent years LNAPL has not been detected at RFI-12-01R. At RFI-12-08R LNAPL has been measured at thicknesses ranging from 0.89 to 3.42 feet.
- The AOI 12-C LNAPL Area consists of seven monitoring wells (RFI-12-09R, RFI-12-11D, RFI-12-14, RFI-12-23, RFI-12-28, RFI-12-35, and RFI-12-38) located in the Northern portion of the AOI 12-A, -B, &-C area. LNAPL has generally been measured at thicknesses greater than 0.1 feet at these wells with the exception of RFI-12-14 where 0.01 to 0.02 feet of LNAPL is measured intermittently. At AOI 12-C, the LNAPL contains concentrations of chromium and lead that exceed TCLP criteria; however, TCLP analysis has not been conducted, and PCBs at a concentration of 8.6 parts per million (ppm). The LNAPL at AOI 12-C has a viscosity ranging from 14 cp at the southern end of the LNAPL Area to 110 cp at the northern end of the LNAPL Area, interfacial tension ranging from 21 dynes/cm at the southern end of the LNAPL Area to 17 dynes/cm at the northern end of the LNAPL Area, and specific gravity ranging from 0.089 at the southern end of the LNAPL Area to 0.93 at the northern end of the LNAPL Area.

1) *Are unacceptable dissolved phase, vapor phase, or direct contact exposures associated with the LNAPL under any use scenarios?*

   YES – The following potential risk/exposure concerns are associated with the AOI 12-A, -B, & -C LNAPL Areas:

   - Groundwater/surface water interface (GSI) Concern: LNAPL and groundwater from the AOI 12-B and -C LNAPL Areas is infiltrating the Outfall 004 storm sewer. In 2010 and 2011, samples were collected from the on-site compliance point for the Outfall 004 storm sewer approximately 1,800 feet downstream of AOI 12-B and -C and submitted for laboratory analysis. The Outfall 004 storm sewer samples exceeded GSI criteria for select metals; however, the AOI 12-B and -C LNAPL Areas are not the sole source of impact along the Outfall 004 storm sewer and therefore may not be the source of these exceedances. In addition, the GSI compliance point for the Outfall 004 is at the discharge point to the river. During dry weather flow, the flow within the Outfall 004 storm sewer is diverted to the Outfall 003 via the Outfall 003/004 Storm Water Diversion and Treatment System (oil-water separator), thus, during these periods, there is no contribution from the Site to Outfall 004.
   - Particulate Soil Inhalation (Ambient Air) Concerns: The concentration of manganese detected in soil at the AOI 12-A, -B, & -C LNAPL Areas exceeds the non-residential particulate soil inhalation criteria. The building slab will be maintained as an engineering control and an institutional control preventing its removal will be implemented.
   - Potential Volatilization to Indoor Air for a Future Structure Concern*:* Theoretically, there is a potential unacceptable vapor phase exposure risk associated with methane future redevelopment scenarios; however, this will be addressed by the proposed institutional controls.

Attachment 2 Notes

Priority #4 - AOI 12-A, -B, &-C Hydraulic Oil Areas

2) *Do feasible options exist to mitigate unacceptable risk through compositional change?*

NO – The following is a general discussion regarding the feasibility of various compositional change remediation strategies for the AOI 12-A, -B &-C Areas:

- Bench-scale testing of five technologies was conducted on samples collected from the AOI 12-A, -B, & -C area. The results of the testing were presented in the *LNAPL Remediation Technology Bench-Scale Testing Report.* Based on the results of the bench-scale testing, the following observations are made:
  - Enhanced dissolution and recovery via surfactant or hot water flushing did not result in any additional LNAPL recovery.
  - Remedial technologies relying on direct chemical destruction of constituents of concern (COCs) are also technically infeasible, given that the desired chemical reactions occur within the aqueous phase only, and thus are rate-limited by dissolution of contaminants from the non-aqueous to aqueous phase.
  - Based on the results of simulated distillation testing, a significant portion of the LNAPL has a boiling point above 400°C and would be considered semi-volatile organic compounds (SVOCs). Steam or electric resistive heating (ERH) are not recommended for SVOCs because a higher temperature is required to volatilize these compounds.
  - In situ thermal remediation may be technically feasible for the area; however, it is not a viable option based on the presence of polychlorinated biphenyls (PCBs) in the LNAPL and nearby City sewers. In addition, it does not represent an economically feasible remedial alternative given the relatively large area that would need to be addressed.
- AOI 12-A, -B, & -C LNAPL constituents have low volatility rendering remedial technologies that rely on vapor-phase partitioning infeasible on a technical basis.

3) *Is there a potential benefit to partial treatment/removal that outweighs costs?*

NO – The risks associated with this LNAPL area are PCB-impacted LNAPL infiltrating into the Outfall 004 storm sewer system, particulate soil inhalation, and possible volatilization to indoor air of a future building. The infiltration to the Outfall 004 storm sewer will be addressed by rerouting the flow into the Outfall 013 storm sewer and bulkheading the Outfall 004 storm sewer in this portion of the Site. Outfall 004 will be rerouted prior to encountering the LNAPL impacts; thereby, eliminating impacts to Outfall 013. Following the completion of the reroute, the abandoned section of the Outfall 004 storm sewer will be used as a passive recovery trench. The 004 recovery trench will then be monitored for LNAPL accumulation and LNAPL removal activities will be conducted as necessary. Based on the current understanding of risk conditions, the soil inhalation and volatilization to indoor air risks can be effectively mitigated through engineering and institutional controls.

4) *Is LNAPL migrating or potentially migrating (i.e. mobile along the perimeter)?*

NO – While the LNAPL is mobile in the vicinity of the storm sewer, as a collective these LNAPL Areas appear to be stable. This finding is supported by the following lines of evidence:

- Well Gauging Data: Sentinel wells located around the periphery of the AOI 12-A, -B, & -C LNAPL Areas have remained free of LNAPL since monitoring began approximately 10 years ago.
- Age of LNAPL Release: The AOI 12-A, -B, & -C LNAPL Areas were identified between 1998 and 2001. Operations began in this portion of the Site in the 1910's and ceased in this portion of the Site ceased in late 1990's - early 2000's (no active LNAPL sources for at least 10 years). LNAPL bodies typically stabilize within 2 to 5 years after a release has been stopped (ITRC, 2012).

5) *Is LNAPL mobile within the stable LNAPL perimeter?*

YES – LNAPL from the AOI 12-B and -C Areas is infiltrating the Outfall 004 storm sewer, which passes through the AOI 12-C LNAPL Area; however, the viscosity of the LNAPL in this portion of AOI 12-C is 110 cp limiting its mobility. The proposed remedy to eliminate LNAPL infiltrations is the reroute of the Outfall 004 storm sewer into the Outfall 013 storm sewer.

6) *Is LNAPL readily recoverable?*

NO – The results of historic interim measures (IM), and bench-scale testing, and transmissivity testing indicate that the AOI 12-A, -B, and –C LNAPL Areas are not readily recoverable. These activities are summarized below:

- During the Site-wide LNAPL monitoring program conducted from 2003 through 2005, a total of approximately 7.4 gallons of LNAPL was recovered in 10 quarterly bailing events in the AOI 12-A, -B, and -C Areas.

Attachment 2 Notes

Priority #4 - AOI 12-A, -B, &-C Hydraulic Oil Areas

- In 2003, two stand-alone LNAPL collection systems were installed at wells RFI-12-02 and RFI-12-11D for the purpose of controlling the migration of potential LNAPL in this area. Due to the high viscosity of the LNAPL in this area, these systems failed to collect any reasonable amount of LNAPL. As such, they were terminated and dismantled.
- In 2011, as part of bench scale testing activities, hydraulic LNAPL recovery through residual saturation analysis was evaluated. LNAPL saturation was assessed on soil cores collected from AOI 12-A, -B, &-C through the petrophysical laboratory analysis Residual Saturation by Water Drive (RSWD). A total of four RSWD tests were performed on samples collected where LNAPL is located in the subsurface. The testing showed that all four samples were at residual saturation, indicating LNAPL is immobile as defined by the ITRC (2009) under saturated conditions and limited potential to hydraulically recover LNAPL.
- The 2011-2012 transmissivity testing completed at AOI 12-C resulted in transmissivities being quantified at monitoring wells LIF-12-018, RFI-12-09R, and RFI-12-35 ranging from 0.01 to 0.1 square feet per day (ft^2/day). These results are below both the ITRC and MDEQ draft standard threshold values indicating that LNAPL recovery is not practicable at these wells. At RFI-12-23, transmissivity ranged from 0.2 to 0.4 ft^2/day indicating that LNAPL recovery is likely not practicable. The LNAPL transmissivity measured at AOI 12-A, -B, & -C are below this criterion indicating that LNAPL is minimally recoverable and LNAPL recovery efforts (through hydraulic-based remediation methods) will not result in a beneficial reduction in overall LNAPL mass.

7) Are controls required?

YES – In addition to the rerouting of the Outfall 004 storm sewer into the Outfall 013 sewer to eliminate LNAPL infiltration, the following AOI-specific engineering and institutional controls, in addition to the Site-wide institutional controls, are proposed for the AOI 12-A, -B, and –C area to limit future exposure:

- Prohibit any excavation or other intrusive activity that could affect the integrity of the surface cover that is present (as shown on **Figure C3-1**) to prevent direct contact with contaminated material, except with using appropriate health and safety measures, during short-term construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the surface cover, that could affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original barrier within a reasonable timeframe. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the Natural Resources and Environmental Protection Act.
- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads, as shown on **Figure 6 in the main report**,
- Notification to future owners of the presence of PCBs, and
- Restrict the area shown on **Figure C3-1** to low occupancy based on the presence of PCBs.

Attachment 3

761.61(c) Risk Based Cleanup and Disposal Request

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Priority #4 – AOI 12-A, -B, & -C Hydraulic Oil LNAPL Areas Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 3 – 761.61(c) Risk Based Cleanup and Disposal Request

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This attachment presents the information required to support a 761.71(c) determination for the area of interest (AOI) 12-A, -B, & -C Hydraulic Oil light non-aqueous phase liquids (LNAPL) Areas (AOI 12-A, -B, & -C LNAPL Areas).

1. Area Background and History

The AOI 12-A, -B, & -C LNAPL Areas are located at the Southend of the Site in the former Building 12 area and are likely associated with historic releases associated with operations. The AOI 12-A LNAPL Area is defined by six monitoring wells in the southeastern portion of the AOI 12-A, -B, & -C area (RFI-12-02R, RFI-12-26, RFI-12-15, RFI-12-22R, RFI-12-25, and RFI-12-27). The AOI 12-B LNAPL Area consists of two monitoring wells (RFI-12-01R and RFI-12-08R) located in the southwestern portion of the AOI 12-A, -B, & -C area. The AOI 12-C LNAPL Area consists of seven monitoring wells (RFI-12-09R, RFI-12-11D, RFI-12-14, RFI-12-23, RFI-12-28, RFI-12-35, and RFI-12-38) located in the Northern portion of the AOI 12-A, -B, & -C Areas.

2. Summary of SOPs and Investigation Results

AOI 12-A, -B, & -C has been previously investigated as part of the Site's RCRA Facility Investigation (RFI) activities. The RFI Work Plan presents the standard operating procedures, field sampling procedures, quality assurance/quality control procedures, etc. used during the investigation. The results of the investigations (including laboratory analytical reports) were presented in the RFI Phase I and RFI Phase II reports.

3. Nature of Contamination

At AOI 12-A, -B, & -C, samples of LNAPL, soil and groundwater have been analyzed for PCBs. Below is a brief summary of results.

- LNAPL samples were collected from seven monitoring wells (RFI-12-02, RFI-12-09, RFI-12-11D, RFI-12-22, RFI-12-23, RFI-12-35, and RFI-12-38). PCBs were only detected in the sample collected from RFI-12-38 at a concentration of 8.6 parts per million (ppm).

- A total of 73 soil samples collected from the AOI 12-A, -B, & -C area were analyzed for PCBs. PCBs were detected in the nine of the samples collected. All detections were at concentrations less than 1 ppm. The maximum detection of PCBs in soil was 0.186 ppm.
- Eleven groundwater samples collected from wells in the AOI 12-A, -B, & -C area were analyzed for PCBs. PCBs were detected in only two of the groundwater samples at a concentrations of 0.041 and 0.046 nanograms per liter (ng/L).

4. Extent of Impacts

At AOI 12-A, -B, & -C, PCB impacts are associated with the LNAPL in the vicinity of monitoring well RFI-12-38. **Figure C3-1** shows the approximate extent of the AOI 12-A, -B, & -C LNAPL Areas. Monitoring well RFI-12-38 is located in the northern portion of the AOI 12-C LNAPL Area, beneath Leith Street. The depth of LNAPL impacts at RFI-12-38 are approximately 5 to 8 feet below ground surface (bgs).

5. Risk Based Procedure

PCB-impacted LNAPL is located in the vicinity of RFI-12-38 at concentrations that exceed 1 ppm. The existing cover will remain in place at RFI-12-38 and the area will be designated as low occupancy. Monitoring well RFI-12-38 is located in Leith Street and the existing ground cover in the vicinity of RFI-12-38 consists of approximately 1 foot of asphalt/concrete. The former Building 12 slab is located south of RFI-12-38 and consists of one to three feet of concrete. The approximate areas proposed for low occupancy restriction is presented on **Figure C3-1.** However, additional sampling may be completed to refine the extents of impacts prior to implementing the restriction. In addition future owners will be notified of the presence of PCBs in this area.

In addition, LNAPL and/or LNAPL-impacted soils removed during remediation activities completed at AOI 12-A, -B, and -C will be characterized for disposal using “as found” concentrations.

AOI-specific deed restrictions, in addition to Site-wide institutional controls, placed on AOI 12-A, -B, & -C will include (but are not limited to):

- Prohibit any excavation or other intrusive activity that could affect the integrity of the surface cover that is present (as shown on **Figure C3-1**) to prevent direct contact with contaminated material, except with using appropriate health and safety measures, during short-term construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the surface cover, that could affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original barrier within a reasonable timeframe. Repair and/or replacement of the barrier must be completed unless additional sampling is

conducted that demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the Natural Resources and Environmental Protection Act.

- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads, as shown on **Figure 6 in the main report**,
- Notification to future owners of the presence of PCBs, and
- Restrict the area shown on **Figure C3-1** to low occupancy based on the presence of PCBs.

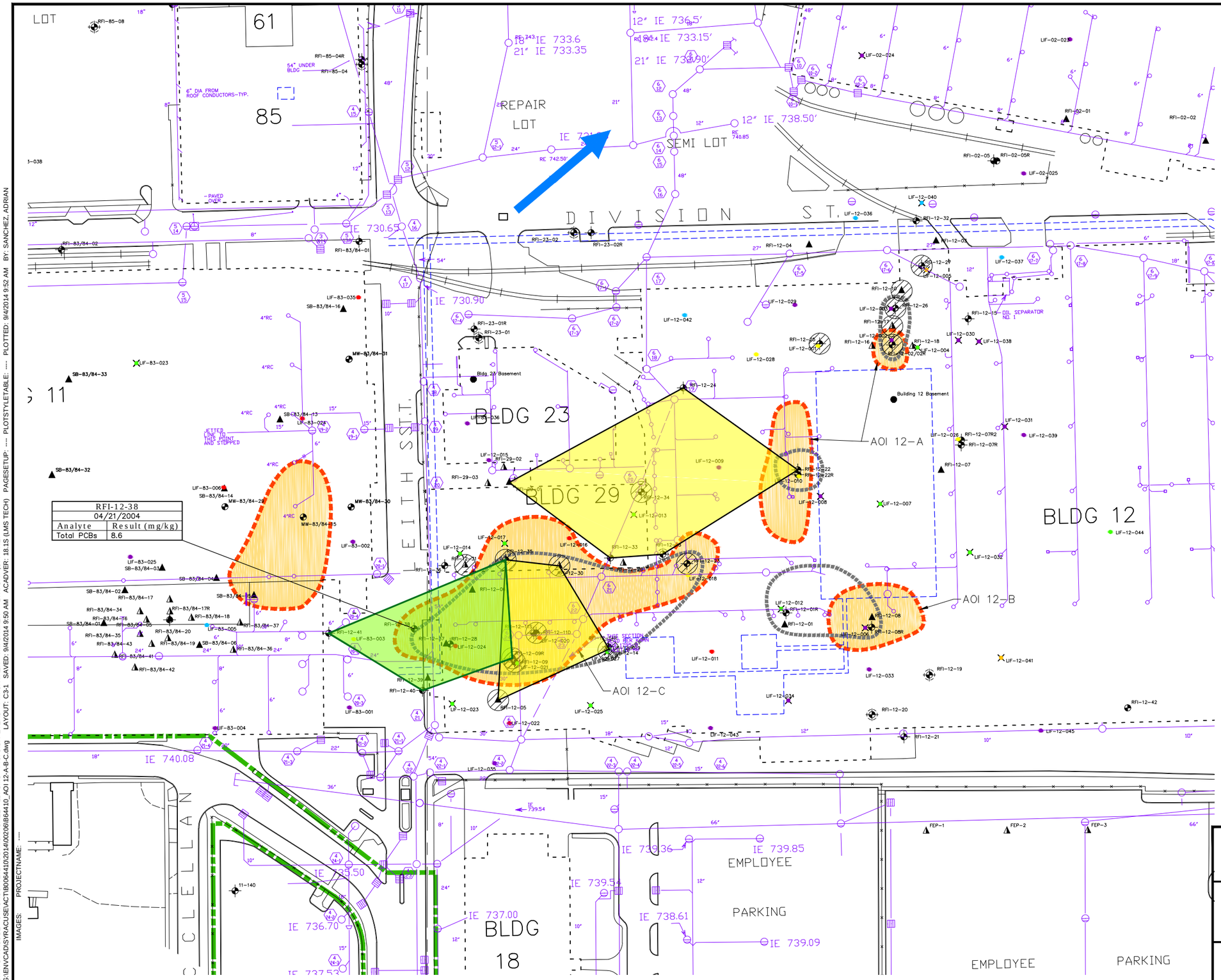
6. Evaluation of Alternatives

The following technologies were evaluated during bench-scale testing to address LNAPL at AOI 12-A, -B, & -C:

- Enhanced dissolution and recovery via surfactant or hot water flushing did not result in any additional LNAPL recovery.
- LNAPL constituents at AOI 12-A, -B, & -C have low volatility rendering remedial technologies that rely on vapor-phase partitioning infeasible on a technical basis.
- Remedial technologies relying on direct chemical destruction of constituent of concern (COCs) are also technically infeasible, given that the desired chemical reactions occur within the aqueous phase only, and thus are rate-limited by dissolution of contaminants from the non-aqueous to aqueous phase.
- Based on the results of simulated distillation testing, a significant portion of the LNAPL has a boiling point above 400°C and would be considered semi-volatile organic compounds (SVOCs). Steam or electric resistive heating (ERH) are not recommended for SVOCs because a higher temperature is required to volatilize these compounds.
- In situ thermal remediation may be technically feasible for the area; however, it is not a viable option based on the presence of PCBs in the LNAPL and nearby City sewers. In addition, it does not represent an economically feasible remedial alternative given the relatively large area that would need to be addressed.

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Figures



NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

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FLINT, MICHIGAN

AOI 12-A, -B, AND -C PCB CONCENTRATIONS IN LNAPL AND EXTENT OF RESTRICTIONS

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FIGURE
C3-1

CITY: SYRACUSE DV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
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IMAGES: PROJECTNAME: ---- PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 9/4/2014 9:52 AM BY: SANCHEZ, ADRIAN

Attachment 4

Remedy Recommendation

Priority #4 - AOI 12-A, -B, &-C Hydraulic Oil LNAPL Areas Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 4 – Recommended Remedy

This attachment presents the recommended remedies for the area of interest (AOI) 12-A, -B, & -C Hydraulic Oil light non-aqueous phase liquid (LNAPL) Areas (AOI 12-A, -B, &-C LNAPL Areas).

1. Compositional and Saturation Concerns

The LNAPL Decision Tree Analysis presented in Attachment 2 identified groundwater/surface water interface (GSI), particulate soil inhalation, and potential volatilization to indoor air as compositional concerns for AOI 12-A, -B, & -C and mobility as a saturation concern. The LNAPL from the AOI 12-A, -B, &, -C area is infiltrating the Outfall 004 storm sewer, which is the basis for the mobility and GSI concerns. The particulate soil inhalation concern is due to concentrations of manganese in soil. The potential volatilization to indoor air concern is due to the biodegradation of LNAPL generating methane that could result in indoor air concerns for future structures. In addition, the LNAPL from the AOI 12-A, -B, and -C area, contains low levels of polychlorinated biphenyl (PCBs) which has also been identified as a concern.

2. Remedy Recommendation Rationale

The remedies recommended to address the compositional and saturation concerns associated with the AOI 12-A, -B, &, -C LNAPL Areas are engineering and institutional controls, which are discussed in detail in Section 3. The rationale for this selection is detailed below:

- Based on the current understanding of risk conditions, the potential volatilization to indoor air risk for future structures can be effectively mitigated through Site-wide institutional controls.
- Although the LNAPL at AOI 12-A, -B, &, -C is mobile within the stable perimeter, transmissivity testing indicates that recovery is not practical. The LNAPL transmissivities in the northern portion of the AOI12-C Area quantified at LIF-12-018, RFI-12-09R, and RFI-12-35 ranged from 0.01 to 0.1 ft^2/day, which are below both the Interstate Technology and Regulatory Council (ITRC) and the Michigan Department of Environmental Quality (MDEQ) draft standard threshold values for practical recovery. LNAPL transmissivity quantified in the southern portion of the AOI 12-C Area at monitoring well RFI-12-23 was 0.2 to 0.4 ft^2/day, which is below the MDEQ draft standard

threshold values for recovery but within the range that ITRC indicates LNAPL recovery may be practicable.

- From 2003 to 2005, 10 quarterly LNAPL recovery events removed a total of only 7.4 gallons of LNAPL from AOI 12-A, B, & -C wells.
- The two stand-alone LNAPL collection systems installed at wells RFI-12-02 and RFI-12-11D were discontinued due to failure to collect a reasonable amount of LNAPL because of the high viscosity of the LNAPL.
- PCBs were detected at a concentration of 8.6 ppm in the LNAPL sample collected from monitoring well RFI-12-38.
- LNAPL is infiltrating the Outfall 004 storm sewer.
- An NSZD study was conducted at two locations located in the AOI 12-A, -B, &-C LNAPL Area. The testing completed indicated that NSZD is occurring; however, the currently available testing technologies cannot reliably quantify the depletion beneath a concrete slab.
- The lead exceedances of nonresidential direct contact criteria (NDC) were addressed by the *Final Decision for the Southend of the Site* which was issued by U.S. EPA in May 2010 (Southend Final Decision).

3. AOI 12-A, -B, & -C Remedies

3.1 Completed Interim Measures

A Site-wide LNAPL monitoring program conducted from 2003 through 2005 removed a total of approximately 7.4 gallons of LNAPL. In addition, two LNAPL collection systems were installed in response to the observation of LNAPL discovered in wells in the northwestern and eastern portions of the former Building 12. The systems were dismantled prior to 2006 due to the high viscosity of the LNAPL. Partial removal of product has been completed in this area and is considered a component of the remedy.

3.2 Additional Remedy Recommendations

The remedies recommended to address the mobility, volatilization, GSI and PCB concerns associated with AOI 12-A, -B, & -C LNAPL Areas are to eliminate the Outfall 004 infiltration pathway via engineering controls, to restrict a portion of the area to low occupancy use, to maintain surface cover, and to establish institutional controls. These combined remedies will eliminate the infiltration pathway in the short term and prevent future worker exposure to LNAPL impacts in the long term.

3.2.1 Outfall 004 Pathway Elimination

In order to address the risks associated with the LNAPL infiltration into the Outfall 004 storm sewer, the pathway will be eliminated. The preferred option to eliminate this pathway is to re-route the

flow from the Outfall 004 storm sewer at the western property boundary into the nearby Outfall 013 storm sewer. The Outfall 004 storm sewer will then be bulkheaded and collared at the downgradient property boundary to eliminate this pathway. Outfall 004 will be rerouted prior to encountering the LNAPL impacts; therefore, eliminating impacts to Outfall 013 as shown on **Figure C4-1**. A feasibility study for this option is currently underway and the final cost for this option is being evaluated.

3.2.2 004 Passive Recovery Trench

Following the completion of the reroute, the abandoned section of the Outfall 004 storm sewer will be used as a passive recovery trench. The 004 recovery trench will then be monitored for LNAPL accumulation and LNAPL removal activities will be conducted as necessary.

3.2.3 Maintain Surface Cover

The remedy recommended to address the manganese particulate soil inhalation exceedances located beneath the existing asphalt/concrete is to maintain the surface cover over the impacted area. The area requiring surface cover is presented on **Figure C3-1**. The surface cover will be inspected and maintained to provide protection from future exposure. This surface cover area will be maintained in addition to the surface cover required to address the soil lead impacts in the Southend Final Decision.

3.2.4 Institutional Controls

In order to address the PCB detection in LNAPL at the AOI 12-C LNAPL Area, a portion of the area will be restricted to low occupancy use. In addition, future owners will be notified of the presence of PCBs in this area.

The following AOI-specific institutional controls, in addition to the Site-wide institutional controls, will be necessary to limit potential for future exposure:

- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads, as shown on **Figure 6 in the main report**.
- Prohibit any excavation or other intrusive activity that could affect the integrity of the surface cover that is present (as shown on **Figure C3-1**) to prevent direct contact with contaminated material, except with using appropriate health and safety measures, during short-term construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the surface cover, that could affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original barrier within a reasonable timeframe. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that

demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the NREPA.

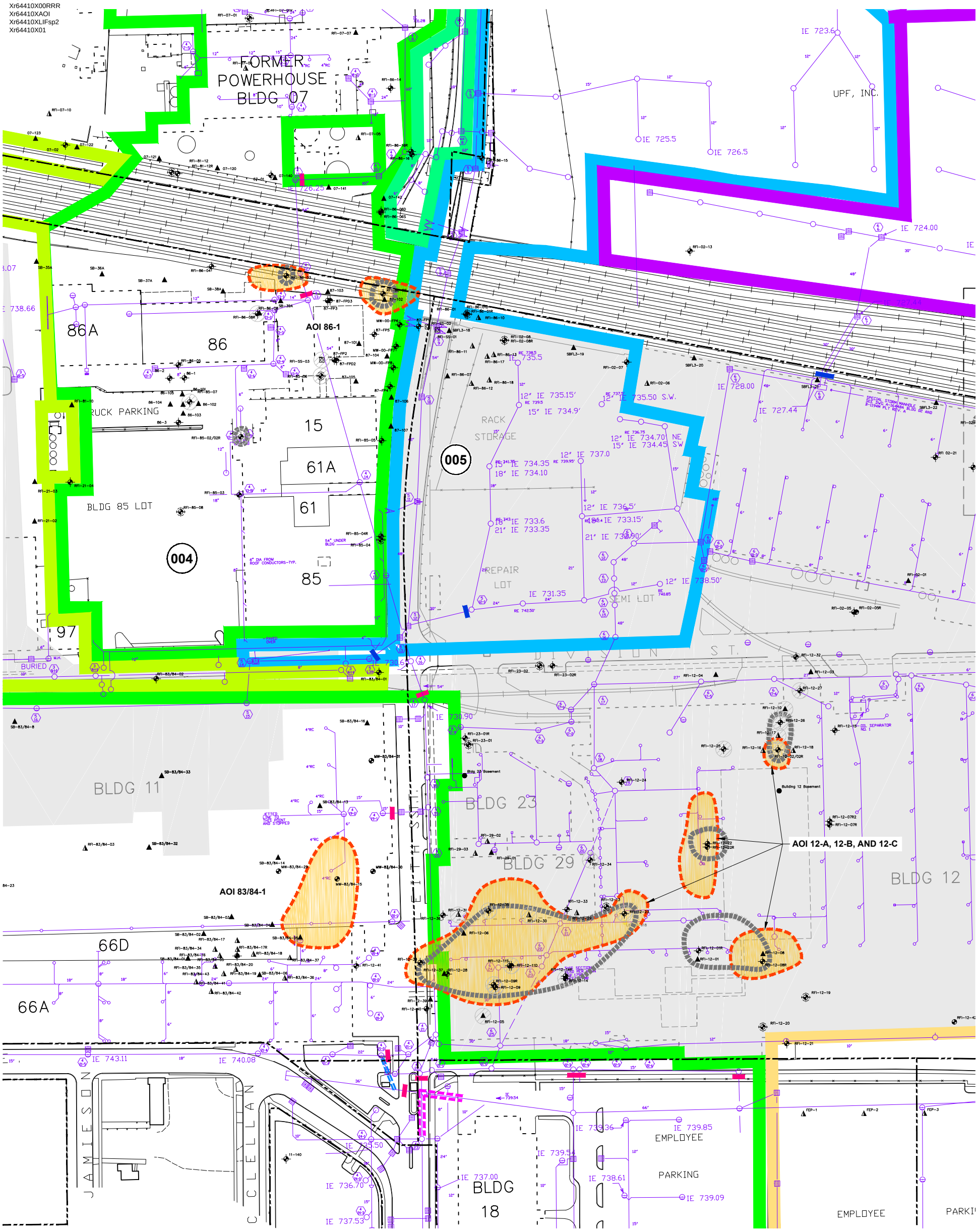
- Notify future owners of the presence of PCBs, and
- Restrict the area shown on **Figure C3-1** to low occupancy based on the presence of PCBs.

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Figures

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\B0064410\2014\00206\B64410_RRR.dwg LAYOUT: 03 SAVED: 8/12/2014 11:32 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: BBL-FULL.CTB PLOTTED: 8/20/2014 12:43 PM BY: SANCHEZ, ADRIAN

XREFS: IMAGES: PROJECTNAME: ----
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Xr64410X00
Xr64410XUtility
Xr64410XDrainage
Xr64410XLNAPL
Xr64410X00RRR
Xr64410XAOI
Xr64410XLIFsp2
Xr64410X01



NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

LEGEND:

- PROPERTY BOUNDARY
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- AREAS WITH NO DIRECT DRAINAGE TO THE STORM SEWER
- 004 — OUTFALL DRAINAGE AREA AND NUMBER
- STORM SEWER
- COMPLETED BULKHEAD
- PROPOSED REROUTE
- PROPOSED REROUTE
- PROPOSED OUTFALL 004 BULKHEAD LOCATION (TO BE COMPLETED FOLLOWING REROUTE)

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OUTFALL 004 BULKHEADS AND REROUTE

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FIGURE
C4-1

Appendix D

AOI 10-1/10-4 Hydraulic Oil Area
Remedy Recommendation Memo

ARCADIS G&M of Michigan, LLC
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Michigan 48377
Tel 248 994 2240
Fax 248 994 2241

MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER
Chris Peters, ARCADIS
Steve Gaito, ARCADIS

From:
Micki M. Maki
Victoria Stacey

Date:
August 29, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
Priority #5 - AOI 10-1/10-4 Hydraulic Oil Area
Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

As part of the light non-aqueous phase liquid (LNAPL) remedy evaluation process the Site's 17 LNAPL areas were prioritized based on risk. The area of interest (AOI) 10-1/10-4 LNAPL Area is ranked as Priority #5 with a total potential risk score of 11 (**Table 5 of the main report**). A conceptual site model cross-section is attached (**Figures D-1 and D-2**) which provides an overview of the AOI 10-1/10-4 LNAPL Area impacts and interim measures (IMs).

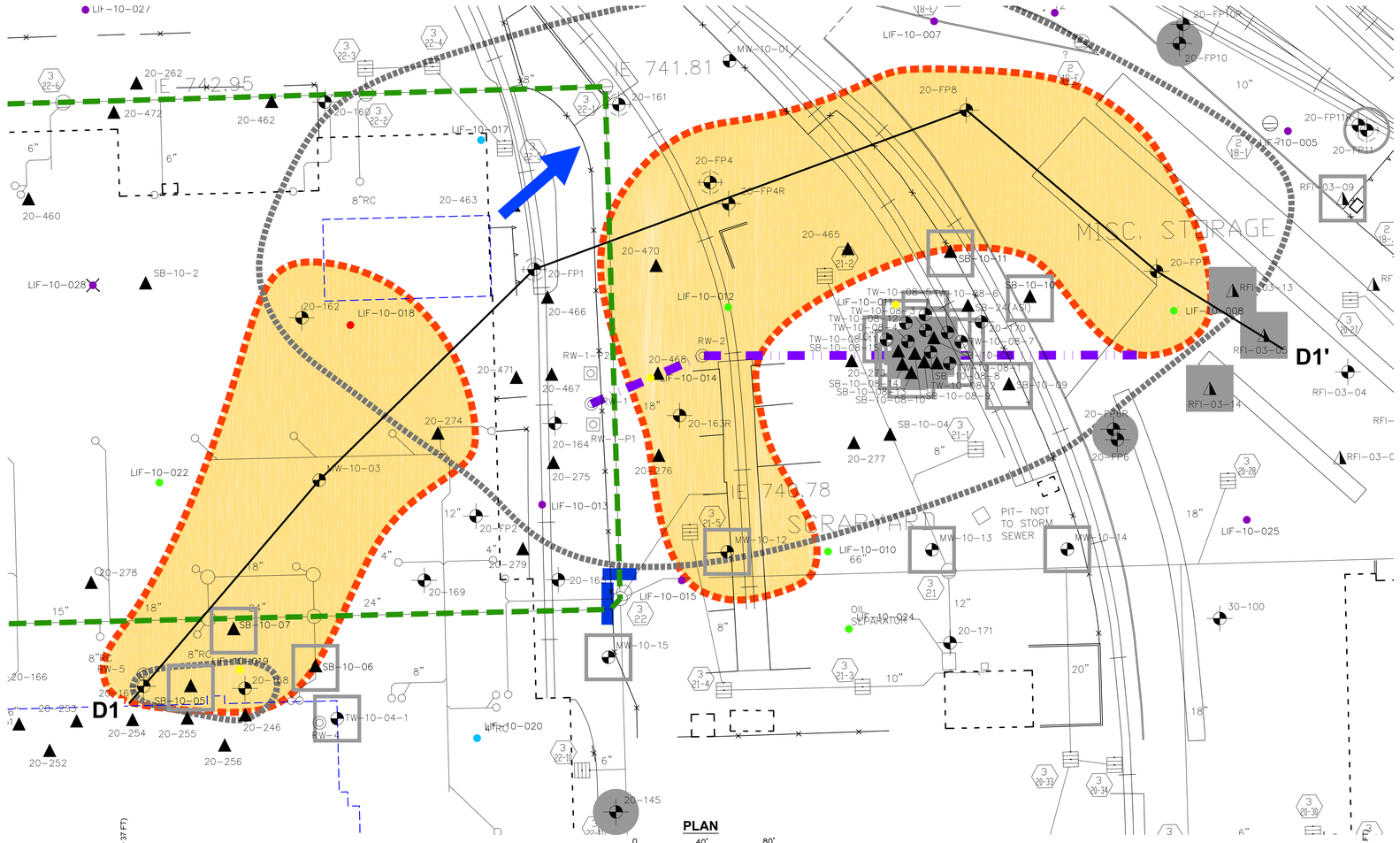
Historical IMs completed at the AOI 10-1/10-4 LNAPL area include a groundwater collection and treatment system and a recovery trench and an LNAPL bailing program. The partial and effective removal of product completed in this area is considered a component of the remedy.

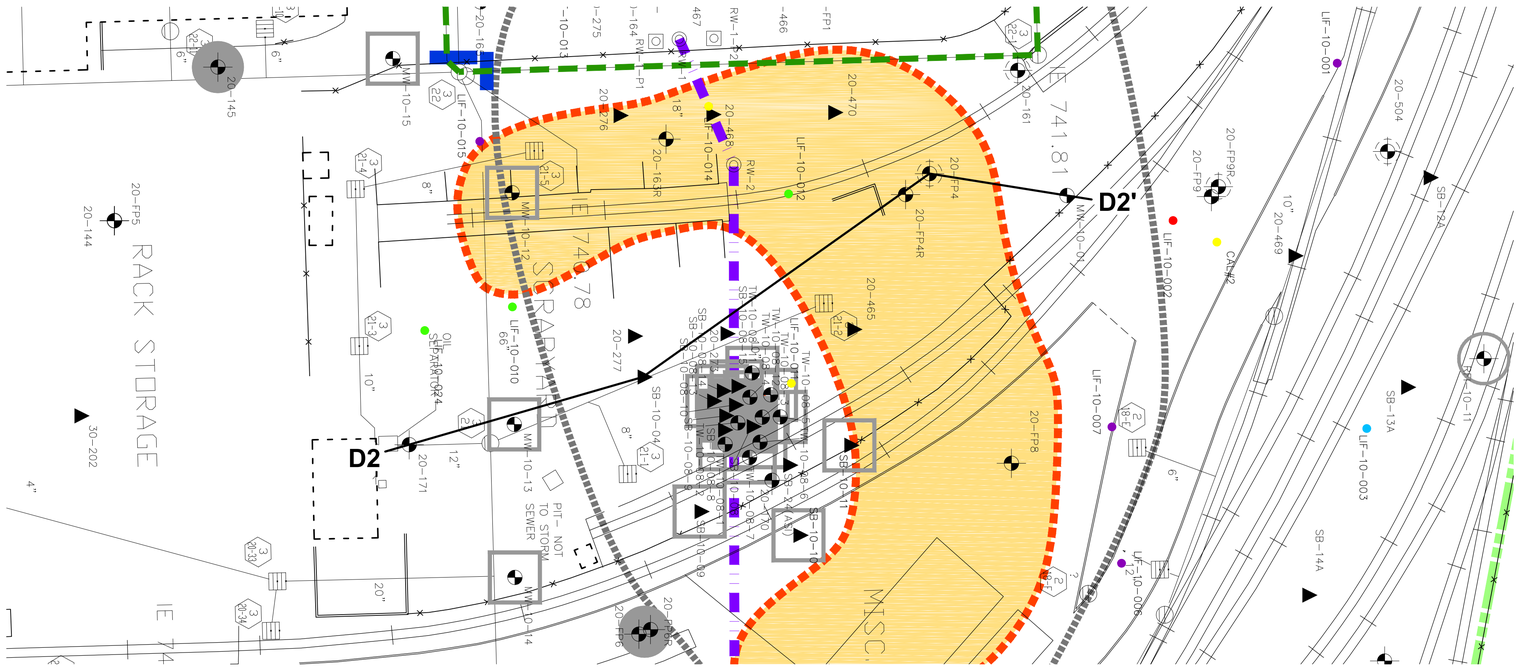
The compositional and saturation concerns identified for the AOI 10-1/10-4 LNAPL Area were evaluated in the LNAPL decision tree (**Attachment 2**) and are summarized below:

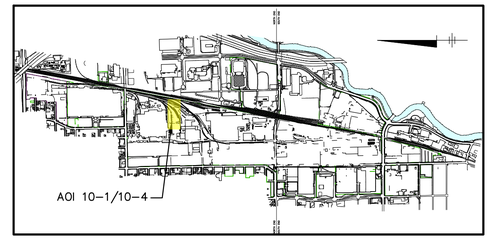
- There are unacceptable groundwater/surface water interface (GSI), particulate soil inhalation, direct contact and potential vapor phase concerns associated with the AOI 10-1/10-4 LNAPL Area.

- Targeted excavation and engineering and institutional controls are required to effectively mitigate the potential risks associated with GSI, particulate soil inhalation and direct contact exposures associated with future redevelopment scenarios.
- Due to the nature and extent of PCB impacts, it is requested that the remaining LNAPL impacts at AOI 10-1/10-4 be allowed to remain in place and the area be designated as low occupancy [per 761.61(a)(4)(i)(B)].
- There is a potential unacceptable vapor phase exposure risk associated with impacted groundwater; however, this will be addressed by the proposed institutional controls and additional sampling and evaluation.
- Theoretically, there is a potential unacceptable vapor phase exposure risk associated with methane for future redevelopment scenarios due to the biodegradation of LNAPL generating methane; however, this will be addressed by the proposed institutional controls.
- No feasible options exist to mitigate unacceptable risk through compositional change.
- The LNAPL is not migrating; however, it is mobile and infiltrating the Outfall 003 storm sewer.
- Transmissivity testing conducted at one monitoring well (20-FP7) indicated that LNAPL may be readily recoverable in a portion of the AOI 10-1/10-4 LNAPL Area. However, LNAPL recovery systems operated at this plume for approximately 13 years with a declining rate of success; therefore partial and effective LNAPL recovery has already been completed and a transition to institutional controls is now appropriate.

Based on the current understanding of conceptual site model risks, the remedies recommended to address the compositional and saturation concerns associated with the AOI 10-1/10-4 LNAPL Area are the elimination of infiltration to the Outfall 003 storm sewer, targeted excavation, maintaining surface cover, and institutional controls.


LIF-10-027
LIF-10-007
MW-10-04
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IE 741.81
IE 740.78
20-262
20-472
20-462
20-160
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LIF-10-017
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SB-10-2
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LIF-10-018
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20-FP4R
20-FP8
20-FP10
20-FP11
LIF-10-005
RFI-03-09
MISC. STORAGE
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SB-10-11
SB-10-10
LIF-10-012
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SB-10-08-32
SB-10-08-33
SB-10-08-34
SB-10-08-35
SB-10-08-36
SB-10-08-37
SB-10-08-38
SB-10-08-39
SB-10-08-40





SITE MAP

0 2000' 4000'

SCALE IN FEET

AOI 10-1/10-4 HYDRAULIC OIL PLUME

KEY LNAPL COMPOSITION AND SATURATION CONCERNS

1) STORM SEWER INTERSECTS GROUNDWATER TABLE ALLOWING INFILTRATION.
2) PCB DETECTIONS IN SOIL AND LNAPL EXCEED DIRECT CONTACT CRITERIA. CONCENTRATIONS RANGE FROM NON-DETECT TO 600 PPM.
3) MANGANESE EXCEEDS PARTICULATES SOIL INHALATION CRITERIA.
4) POTENTIAL GROUNDWATER VOLATILIZATION TO INDOOR AIR CONCERN AT THE PROPERTY BOUNDARY.
5) TRANSMISSIVITY ABOVE MDEQ AND ITRC VALUES AT AOI 10-4 LNAPL AREA.
6) POTENTIAL VOLATILIZATION TO INDOOR AIR CONCERN FOR FUTURE STRUCTURES

COMPLETED INTERIM MEASURES AND RECOMMENDED REMEDIES

R-1) 13 YEARS OF LNAPL REMOVAL (IM COMPLETED).

R-2) STORM SEWER LATERALS BULKHEAD TO ELIMINATE LNAPL MIGRATION PATHWAY (IM COMPLETED).

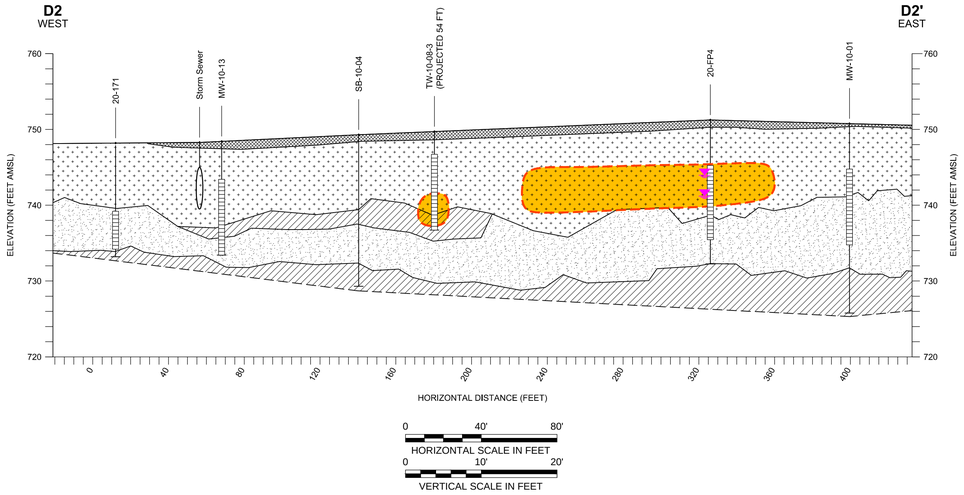
R-3) OUTFALL 003 PATHWAY ELIMINATION.

R-4) 003 RECOVERY TRENCH MONITORING.

R-5) TARGET EXCAVATION.

R-6) MAINTAIN SURFACE COVER

R-7) INSTITUTIONAL CONTROLS.



NOTES:

1. BASE MAP INFORMATION FROM SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.
2. BASED ON INFORMATION AVAILABLE AS OF 03.19.2014.
3. FILL MATERIAL CONSISTS PRIMARILY OF SAND.

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AOI 10-1/10-4 CONCEPTUAL SITE MODEL CROSS SECTION D2-D2'

ARCADIS

FIGURE
D-2

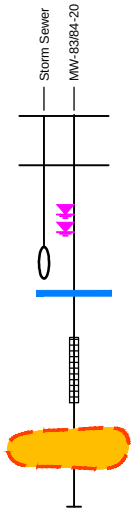
CITY:SYRACUSE DIV/GROUP:ENV DB:A.SANCHEZ LD:AS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\0064410\2014\400206\Xsections\64410V01.DWG LAYOUT: D-2 SAVED: 9/3/2014 4:48 PM ACADVER: 18.1S (LMS TECH)
IMAGES: PROJECTNAME: ----
PAGESETUP: ---- PLOTSTYLETABLE: BBL-FULL.CTB PLOTTED: 9/3/2014 4:51 PM BY: SANCHEZ, ADRIAN

LEGEND

- PROPERTY BOUNDARY
- HISTORICAL LNAPL EXTENT
- CURRENT LNAPL EXTENT
- STORM SEWER
- ABANDONED STORM SEWER LATERAL
- APPROXIMATE LOCATION OF RECOVERY TRENCH
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- A1 — A1' LINE OF SECTION
- RFI MONITORING WELL LOCATION
- MONITORING WELL LOCATION
- RECOVERY WELL (NAPL) LOCATION
- PIEZOMETER LOCATION
- SOIL BORING LOCATION
- DECOMMISSIONED WELL LOCATION
- EVIDENCE OF PRODUCT OBSERVED IN SOIL

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

- <5
- 5–10
- 10–100
- 100–200
- >200
- HAND AUGER REFUSAL (TOP 5')
- GROUNDWATER SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- GROUNDWATER SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- SOIL SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES DO NOT EXCEED APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES EXCEED ONE OR MORE APPLICABLE CRITERIA



- WELL/BORING ID
- EXISTING GRADE
- LITHOLOGICAL CONTACT (DASHED WHERE INFERRED)
- NAPL LEVEL (HISTORIC HIGH AND LOW LEVELS)
- WATER TABLE
- WELL SCREEN
- APPROXIMATE EXTENT OF LNAPL
- WELL/BORING BOTTOM
- ASPHALT
- CONCRETE
- CLAY
- FILL
- GRAVEL
- INTERBEDDED SAND AND CLAY
- INTERBEDDED SANDS AND SILTS
- INTERBEDDED SILT AND CLAY
- SAND
- SILT
- SILTY SAND

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FLINT, MICHIGAN

CROSS SECTION LEGEND

ARCADIS

FIGURE
D-3

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
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XREFS: IMAGES: PROJECTNAME: ---
Xr64410X3Bsp
Xr64410XDrainage
Xr64410X01
Xr64410XLIFsp2
Xr64410X01
Xr64410XAOI
Xr64410XLNAPL

Attachment 1

LNAPL Conceptual Site Model

Priority #5 - AOI 10-1/10-4 Hydraulic Oil Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 1 - Conceptual Site Model

This attachment presents a conceptual site model for the area of interest (AOI) 10-1/10-4 Hydraulic Oil Area (AOI 10-1/10-4 light non-aqueous phase liquid [LNAPL] Area), which is located at the Buick City Site (Site) located in Flint, Michigan (**Figure D1-1**).

1. Background

The AOI 10-1/10-4 LNAPL Area is located at the Northend of the Site in the southern portion of the former Factory 10 footprint (**Figure D1-2**). Historically, Factory 10 was primarily used for metal cutting and shaping operations for transmission and engine component production. The Factory 10 Area includes former Building 22 (former steam generation/compressor station), former Building 24 (fire suppression operations), a solid waste transfer station (east of former Factory 10 and south of former Building 22), and the former scrapyard area south of former Factory 10. According to Site personnel, hydraulic fluids containing polychlorinated biphenyls (PCBs) were used between 1968 and 1972 as part of hydraulic systems associated with die-cast operations. The occurrence of AOI 10-1/10-4 LNAPL Area is presumably due to historical releases associated with these operations.

Investigation data previously presented in Site reports are not re-presented in this memo. However, relevant AOI 010-1/10-4 LNAPL Area investigation data that has not previously been presented in a Site report are attached or are presented in **Appendix X**.

2. Former Interim Measures

2.1. Groundwater Collection and Treatment System

In 1991, PCB-containing LNAPL was detected at the water table beneath and south of Factory 10. In May 1997, a groundwater and LNAPL collection and treatment system was installed in this area (Factory 10 Treatment System). The Factory 10 Treatment System consisted of seven extraction wells and associated distribution pipelines connected to a series of treatment components, including acidification, coalescing filtration, ultraviolet light oxidation, precipitation, clarification, and carbon adsorption. An

organoclay filtration process was later installed and the ultraviolet light oxidation process taken out of service.

The recovery system operated at a flow rate of up to 20 gallons per minute (gpm) until 2010 when it was taken out of service as it was no longer effectively removing LNAPL.

2.2. LNAPL Recovery Trench

Subsurface investigations performed in and around the Scrapyard Area south of Factory 10 identified the presence of LNAPL containing PCBs at the water table outside the southeastern corner of Factory 10 and in the adjacent scrapyard area to the south, outside the influence of the LNAPL collection system installed in 1997. As a result, in 2003 a second LNAPL recovery system consisting of a recovery trench, four manholes, and pumps for both product recovery and groundwater drawdown was installed in January and February 2003 to recover the PCB-containing LNAPL and create hydraulic control at the downgradient edge of the LNAPL area. The recovery trench was composed of two segments: one was approximately 30 feet long and the other was approximately 210 feet long. Both trench segments are approximately 20 feet deep and 1.5 feet wide, and contain a perforated pipe lateral and pea stone backfill. Product and groundwater were pumped from four 4-foot diameter recovery manholes equally spaced along the trench.

Collected groundwater and product were pumped to the Factory 10 Treatment System. The recovery trench was taken out of service in 2010 as it was no longer effectively removing LNAPL.

2.3. LNAPL Monitoring and Bailing Program 2001

From January to July 2001, four monitoring wells (20-FP3, 20-FP6, RW1-P1, and RW2-P2) located in AOI 10-1/10-4 were monitored as part of a weekly LNAPL bailing program. A total of 13 gallons of LNAPL was removed from the four monitoring wells during the weekly program.

2.4. LNAPL Monitoring and Bailing Program 2003 - 2005

From 2003 to 2005, eight monitoring wells (20-162, 20-163, 20-168, 20-FP4R, 20-FP7, 20-FP8, RW1-P1, and RW2-P2) located in AOI 10-1/10-4 were monitored as part of a Site-wide Quarterly LNAPL Monitoring Program. A total of 17 gallons of LNAPL was removed from the eight monitoring wells during the program.

3. AOI 10-1/10-4 Site Setting and Data Summary

This section provides a summary of the geology, hydrogeology, analytical data, and LNAPL characteristics and extent of impacts for the AOI 10-1/10-4 LNAPL Area.

Figure D1-2 presents the locations of the existing and abandoned monitoring wells and soil borings in the AOI 10-1/10-4 Area.

3.1. AOI 10-1/10-4 Geology and Hydrogeology

- *Geology:* The soils at AOI 10-1/10-4 consist of primarily fill material/foundry sands to a depth of 15 feet bgs inside the former building footprint and 9 feet bgs outside the former building footprint. The fill material is underlain by fine to medium sands to depths of 22 feet bgs inside the former building footprint and 17 feet bgs outside the former building footprint. Outside of the former building footprint, the fine to medium sand is underlain by a clay layer ranging from 17 to 19 feet bgs. The logs also indicated evidence of LNAPL impacts from as shallow as 7 feet bgs and as deep as 17 feet bgs, across the area.

- *Groundwater/LNAPL Levels:* Nineteen monitoring wells and two recovery wells in the AOI 10-1/10-4 LNAPL Area are gauged to monitor the extent of the LNAPL Area. Depth to groundwater (or LNAPL, where present) has been measured as shallow as 3.26 feet bgs, as deep as 20.85 feet bgs, and averages around 10 feet bgs in this area.

  The extent of LNAPL is presented on **Figure D1-2**. The figure shows both the historic extent of LNAPL as defined during the RFI process and the current extent of LNAPL. The modification of the LNAPL extent is based on information obtained during investigation activities completed subsequent to the RFI and the completion of LNAPL removal IMs. The AOI 10-1/10-4 LNAPL Area is currently defined by 11 monitoring wells with consistent LNAPL accumulations and five additional wells with intermittent accumulations of LNAPL. Recent groundwater level data are presented in **Appendix X.**

  Based on historic fluid level gauging data, groundwater flow in this portion of the Site is generally to the south-southeast as shown on **Figure D1-2**.

3.2. Groundwater and Soil Analytical Data

Groundwater and soil data collected during Site investigations were compared to applicable Michigan Part 201 nonresidential criteria.

3.2.1. Groundwater Analytical Data

Groundwater samples collected from the AOI 10-1/10-4 LNAPL area exceed groundwater/surface water interface (GSI) criteria for select metals. Arsenic was detected above criteria at 20-FP10 and RFI-03-04 (12 to 90/10 ug/L); barium was detected above criteria at 20-FP6 (1,800/1,308 ug/L); and copper was detected above criteria at 20-145

(52/22 ug/L). One groundwater sample collected from RFI-10-11 in 2001 also exceeded GSI criteria for selenium (21/5 ug/L) and silver (1.9/0.2 ug/L); however, a sample collected in 2003 was below criteria for both selenium and silver. Cyanide was detected above criteria in samples collected from monitoring wells 20-FP10, 30-100, RFI-03-04, and RFI-10-11 (7.8 to 34/5.2 ug/L); however, cyanide has not been detected in the AOI 10-1/10-4 LNAPL samples and does not appear to be associated with the LNAPL Area.

The extent of groundwater impacts are presented on **Figure D1-3** and the groundwater analytical data is presented in **Appendix X**.

3.2.2. Soil VOC, SVOC and Metals Analytical Data

Constituent concentrations in soil samples collected from borings located south of the AOI 10-4 LNAPL Area exceed the applicable non-residential criteria for manganese. Soil samples collected from three locations (RFI-03-05, RFI-03-13, and RFI-03-14) exhibit manganese concentrations exceeding the groundwater surface water interface protection (GSIP) criteria (620 to 2,500/97mg/kg). In addition the manganese concentrations in soil samples collected from RFI-03-05 and RFI-03-13 also exceed non-residential particulate soil inhalation criteria (NPSIC) for manganese (2,400 to 2,500/1,500 mg/kg).

The soil boring locations are presented on **Figure D1-2** and the soil analytical data is presented in **Appendix X**.

3.2.3. GSI Evaluation

The AOI 10-1/10-4 LNAPL Area is located within the Outfall 003 storm sewer drainage basin. Based upon the available information, LNAPL and groundwater are infiltrating the storm sewer within this AOI. As further discussed in **Appendix BB** metals in the storm sewers at the Site are being investigated as part of the NPDES Plus Monitoring Program (NPMP). The NPMP data indicate that to date the only repeatable (more than one) exceedances of GSI criteria at Outfall 003 are for mercury and cyanide. The data evaluations completed to date suggest that the impacts can likely be addressed by a mixing zone based remedy.

3.2.4. Soil PCB Analytical Data

In 2013 and 2014 PCB delineation investigation activities were completed at the Site to refine the extent of PCB impacts in soil and LNAPL during RFI activities. At the AOI 10-1/10-4 LNAPL Area six monitoring wells, 11 temporary wells and 14 soil borings were completed

as part of delineation activities. A summary of the investigation activities completed is provided below.

- At the AOI 10-1 LNAPL Area, three soil borings (SB-10-05 through SB-10-07) and two wells (MW-10-3 and TW-10-4-1) were completed to delineate the extent of LNAPL as well as PCB concentrations in soil and LNAPL. A total of 23 soil samples were collected from four locations and submitted for laboratory analysis of PCBs. PCBs were detected in three soil samples with a maximum concentration of 1.5 mg/kg. The locations are presented on **Figure D1-2** and the soil analytical data is presented in **Appendix X**.

- At the AOI 10-4 LNAPL Area, 11 wells (MW-10-01, TW-10-08-01 through -07, TW-10-08-11, and TW-10-08-12) and 12 soil borings (SB-10-2, SB-10-4, SB-10-08 through SB-10-11, SB-10-08-08 through SB-10-08-10, and SB-10-08-13 through SB-10-08-15) were completed to define the extent of LNAPL as well as the PCB impacts in LNAPL and soil. A total of 65 soil samples were collected and submitted for laboratory analysis of PCBs.

  Thirty-three of the soil samples collected from the AOI 10-4 LNAPL Area detected PCBs at concentrations ranging from 0.3 to 127 ppm. **Figure D1-4** presents the locations of the borings and temporary wells that detected PCBs in exceedance of applicable criteria. The analytical results are presented in **Appendix X**.

- Four monitoring wells (MW-10-12 through MW-10-15) were installed along the Outfall 003 storm sewer main to determine whether the AOI10-1 or 10-4 LNAPL Areas were in hydraulic contact with the sewer main. A total of nine soil samples were collected and submitted for laboratory analysis of PCBs. The locations of the monitoring wells are presented on **Figure D1-2**. Two of the soil samples detected PCBs at concentrations ranging from 0.5 to 0.72 ppm. The analytical results are presented in **Appendix X**.

3.2.5 Vapor Intrusion Evaluation

Due to the presence of shallow groundwater and LNAPL (approximately 10 feet below ground surface) at AOI 10-1/10-4, groundwater data were also compared to the applicable Non-Residential Screening Values for the Vapor Intrusion Pathway presented in the *Michigan Department of Environmental Quality (MDEQ) Guidance Document for the Vapor Intrusion Pathway* (further discussed in Section 3.4 of the Report). Groundwater data from two locations (RFI-10-03 and RFI-10-37) in the AOI 10-1/10-4 area exceed applicable

screening levels. Additional investigation will be completed to further assess these exceedances.

As there are no structures at the Site, the MDEQ Part 201 criteria are appropriate for comparison of soil data. As discussed in Section 3.2.2, manganese was detected at concentrations exceeding NPSIC criteria in soil samples collected from RFI-03-05 and RFI-03-13.

3.3. LNAPL Characteristics

- *LNAPL Analytical Data:* LNAPL present at AOI 10-1/10-4 consists primarily of hydraulic oil. A total of nine LNAPL samples have been collected from the AOI 10-1/10-4 area and submitted for laboratory analysis of VOCs, SVOCs, PCBs and/or metals. At three of the sample locations (20-FP7, 20-FP8, and/or 20-162) concentrations of arsenic, chromium, and/or lead exceed the RCRA toxicity characteristic criteria; however, toxicity characteristic leaching analysis has not been conducted.

  The concentrations of PCBs in LNAPL range from non-detect to 600 parts per million (ppm). At the AOI 10-1 LNAPL Area one LNAPL sample (MW-10-03) detected PCBs (Aroclor 1242) at a concentration of 1.7 ppm. In addition, PCBs were detected in a sample collected of oil seeping into the former Factory 10 basement during demolition activities at a concentration of 600 ppm (Aroclor 1242). At the AOI 10-4 LNAPL Area PCBs were detected in two LNAPL samples (TW-10-08-03, and TW-10-08-04) at concentrations of 13 ppm and 40 ppm, respectively (Aroclor 1254). In addition, a historic LNAPL sample collected from 20-170 detected PCB concentration of 600 ppm (Aroclor-1254); however, LNAPL is no longer present at 20-170. The analytical results for the LNAPL samples collected as part of Site investigation activities are presented in **Appendix X**.

- *LIF Data:* Twenty-eight LIF borings were completed in the AOI 10-1/10-4 area. The LIF waveform signatures observed at AOI 10-1/10-4 are consistent with the known LNAPL type, hydraulic oil. The vertical range of LIF impact (greater than 5%RE) at AOI 10-1/10-4 is typically 8 to 15 feet bgs. **Figure D1-2** presents the results of the LIF investigation and the extent of impacts associated with the AOI 10-1/10-4 LNAPL Areas.

- *Transmissivity:* Transmissivity testing was completed by conducting baildown tests on two monitoring wells (20-FP7 and MW-10-03) in the AOI 10-1/10-4 LNAPL Area. Based on LNAPL baildown test results, LNAPL transmissivity quantified at monitoring wells 20-FP7 and MW-10-03 was 1.0 square feet per day (ft^2/day) and 0.3 ft^2/day, respectively. The LNAPL transmissivity at 20-FP7 was greater than the ITRC-suggested minimum threshold that indicates LNAPL recovery is

practicable at this well; however, the LNAPL transmissivity quantified at monitoring well MW-10-03 was 0.3 ft^2/day, which is within the lower end of the ITRC-suggested minimum threshold value, but less than the MDEQ threshold value that indicates LNAPL recovery is not practicable at this well.

- *Natural Source Zone Depletion:* NSZD testing was not attempted at AOI 10-1/10-4 due to the presence of a concrete slab. The testing completed at the Southend of the Site indicated that NSZD is occurring; however, the currently available testing technologies cannot reliably quantify the depletion beneath a concrete slab.

3.4. Extent of LNAPL

During the RCES preparation, the footprint of the AOI 10-1/10-4 LNAPL Area was calculated based on available Site data to be approximately 152,000 square feet. However, based on an evaluation of additional Site data collected (as discussed in Section 2.1.3 of the main report), the footprint is smaller than previously estimated and is now estimated at 79,500 square feet (**Figure D1-2**). Based on the LIF and soil boring log data, approximate depth to impacts are approximately 8 to 14 ft bgs in the central portion of the LNAPL Area and 7 to 11 ft bgs in the south/southeastern portion of the LNAPL Area.

Boring Logs

Date Start/Finish: 4/10/13-4/10/13
Drilling Company: Stearns Drilling
Driller's Name: Brian Marshall
Drilling Method: Sonic
Sampling Method: Hand Auger/ 4" Core Barrel
Rig Type: Mini Sonic

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 25.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

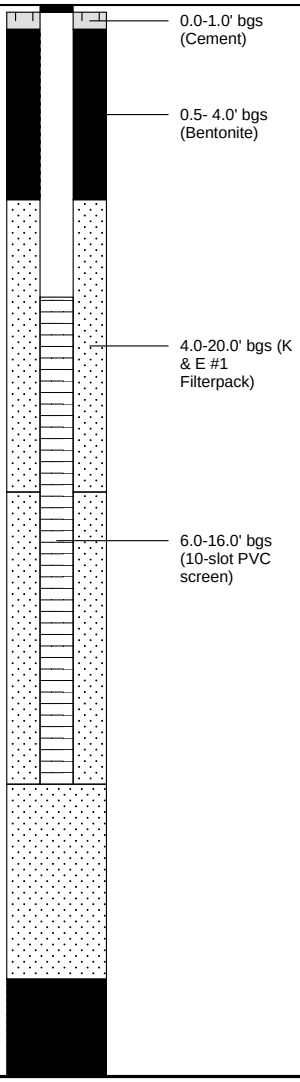
Well/Boring ID: **MW-10-01**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description
0 / 0							(0.0-0.5') CONCRETE.
				0.0			(0.5-3.0') SAND, medium to coarse, subrounded to subangular; and GRANULES, subangular; some small to medium pebbles, subangular to angular; poorly sorted; moist; grayish brown (10YR 5/2). Note: Fill, brick.
	1	0.0-5.0	5.0	0.0			
				0.0			(3.0-5.0') SAND, fine, subrounded; trace granules, subangular; little silt; poorly sorted; wet; dark gray (10YR 4/1). Note: Wet at 3.0' bgs.
				0.0			
5 / -5				0.9			(5.0-6.5') SAND, very fine to fine, subrounded; and CLAY, low plasticity, slow dilatancy; trace small pebbles, subrounded; poorly sorted; wet; light yellowish brown (10YR 6/4).
				2.5			(6.5-8.5') SAND, very fine to fine, subrounded, well sorted; wet; brown (10YR 5/3).
	2	5.0-10.0	5.0	8.4			
				33.7			(8.5-9.5') CLAY and SILT, low plasticity, slow to no dilatancy; some very fine sand; moist; soft; grayish brown (10YR 5/2) mottled with very dark gray (10YR 3/1).
				176			(9.5-13.0') SAND, very fine to fine sand, subrounded; trace silt; well sorted; moist; dark gray (10YR 4/1). Note: Strong odor, sheen.
10 / -10				168			
				80.4			
				116			
				22.9			(13.0-19.2') SAND, fine to medium, subrounded; well sorted; moist; yellowish brown (10YR 5/4).
				12.8			
15 / -15	3	10.0-20.0	9.0	8.6			
				0.5			
				0.0			
				0.0			
				0.0			(19.2-25.0') CLAY, little silt, high plasticity, slow dilatancy; trace very fine sand; moist; soft; gray (10YR 3/1).
20 / -20				0.0			Note: Medium sand layer at 21.0' bgs.
				0.0			

Well/Boring Construction



Remarks: Hand Auger to 5.0' bgs.

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Date Start/Finish: 4/10/13-4/10/13
Drilling Company: Stearns Drilling
Driller's Name: Brian Marshall
Drilling Method: Sonic
Sampling Method: Hand Auger/ 4" Core Barrel
Rig Type: Mini Sonic

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 25.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **MW-10-01**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
	4	20.0-25.0	5.0	0.0 0.0 0.0				20.0-25.0' bgs (bentonite backfill)
25 -25							End of boring at 25.0' bgs.	
30 -30								
35 -35								

Remarks: Hand Auger to 5.0' bgs.

ARCADIS
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Date Start/Finish: 4/10/13-4/10/13
Drilling Company: Stearns Drilling
Driller's Name: Brian Marshall
Drilling Method: Sonic
Sampling Method: Hand Auger/ 4" Core Barrel
Rig Type: Mini Sonic

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 20.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

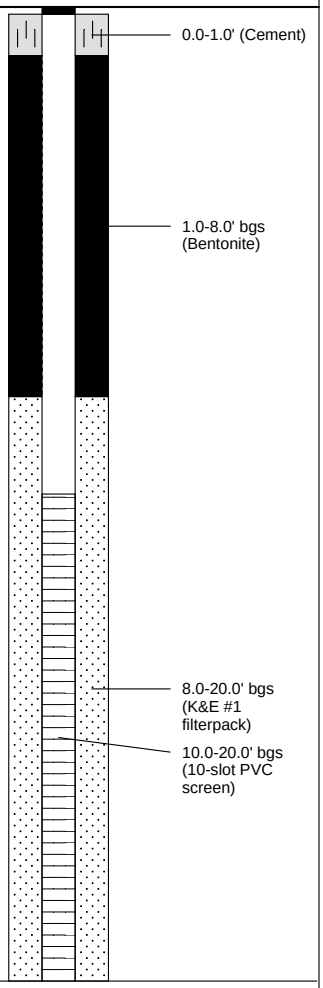
Well/Boring ID: **MW-10-03**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description
0 / 0				NA			(0.0-1.0') CONCRETE.
				0.0			(1.0-15.0') SAND, fine, rounded; trace granules; well sorted; moist; black (10YR 2/1). Note: Slight odor, Fill (foundry sand), rare debris.
	1	0.0-5.0	5.0	1.0			
				2.0			
5 / -5				4.7			
				5.1			
				8.5			
	2	5.0-10.0	5.0	40.6			
				34.1			
10 / -10				1.6			
				4.2			
				6.0			
				7.1			
				5.3			Note: Wet at 13.0' bgs.
				5.0			
15 / -15	3	10.0-20.0	8.0	6.1			(15.0-17.0') PEBBLES, small to very large, subrounded to rounded, some granules, subangular; and SAND, medium to coarse, subrounded; poorly sorted; wet; brown (10YR 4/3). Note: Strong odor; sheen.
				6.8			
				23.4			(17.0-20.0') SAND, fine, subrounded; trace silt; well sorted; moist; very dark gray (10YR 3/1).
				6.5			
20 / -20				0.2			End of boring at 20.0' bgs.

Well/Boring Construction



Remarks: Hand Auger to 5.0' bgs.

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Date Start/Finish: 4/10/13-4/10/13 **Drilling Company:** Stearns Drilling **Driller's Name:** Brian Marshall **Drilling Method:** Sonic **Sampling Method:** Hand Auger/ 4" Core Barrel **Rig Type:** Mini Sonic	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 20.0' bgs **Surface Elevation:** NA **Descriptions By:** T. Stevens	**Well/Boring ID:** **MW-10-03** **Client:** RACER Trust **Location:** RACER Buick City Flint, Michigan

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
25 -25								
30 -30								
35 -35								

Remarks: Hand Auger to 5.0' bgs.

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Date Start: 1/29/2014
Date Finish: 1/29/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Andrew Roberts
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.0'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **MW-10-12**

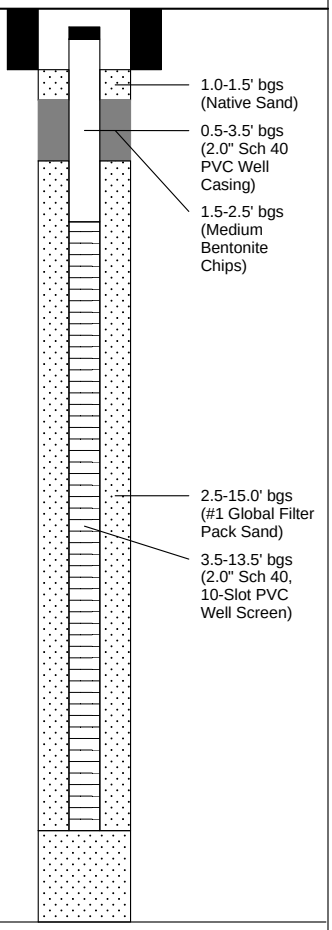
Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 18 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0								
				NA			(0.0 - 1.0') CONCRETE.	
				0.0			(1.0 - 10.0') SAND, medium, subrounded to subangular; some medium to very large pebbles, subrounded; little small pebbles, subrounded; some debris (wood chunks, nails); poorly sorted; dry; dark brown (10YR 3/2).	
	1	0.0-6.0	6.0	0.2				
				0.0				
5 / -5				41.4				
				1.2				
				0.0				
	2	6.0-10.0	3.2	0.1				
				0.3				
10 / -10				0.2				
				0.4			(10.0 - 13.0') SAND, fine; well sorted; wet; dark grayish brown (10YR 3/1).	
				0.2			NOTE: Wet from 10.0 to 12.5' bgs.	
	3	10.0-15.0	5.0	0.0			NOTE: Transition to black (10YR 2/1) at 12.5' bgs.	
				0.0			(13.0 - 14.0') SILT, nonplastic, no dilatancy; little fine sand; well sorted; dry; black (10YR 2/1).	
				0.0			(14.0 - 15.0') SAND, coarse; well sorted; moist; brownish gray (10YR 5/1).	
15 / -15							End of boring at 15.0' bgs.	

Well/Boring Construction



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Remarks: bgs = below ground surface
btoc = below top of casing

Hand Auger to 6.0' bgs. Approximately 20 gallons of drilling water used.

MW-10-12 (4-6) collected at 1545
MW-10-12 (8-10) collected at 1550

Date Start: 1/30/2014
Date Finish: 1/30/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.0'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **MW-10-13**

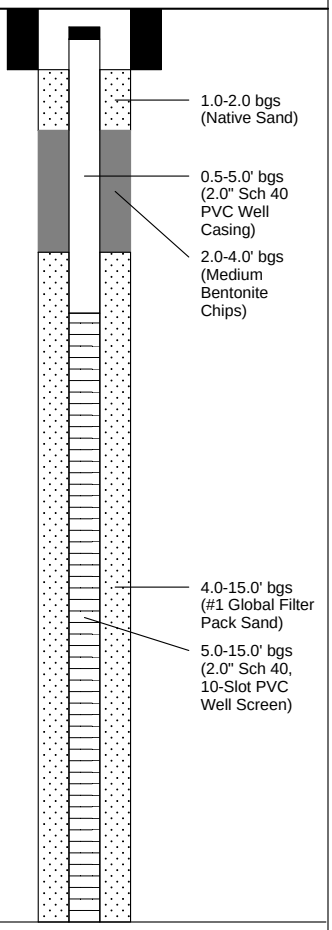
Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Overcast, 26 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0				NA			(0.0 - 1.0') CONCRETE.	
				5.2			(1.0 - 10.0') SAND, medium, subrounded to subangular; some small to medium pebbles, subrounded; poorly sorted; dry; black (10YR 2/1).	
	1	0.0-6.0	6.0	0.0				
				0.0			NOTE: Moist at 3.5' bgs.	
				0.1				
5 / -5				0.8				
				0.0				
	2	6.0-10.0	3.2	0.0				
				0.0				
10 / -10				0.0				
				0.0			(10.0 - 13.0') CLAY and SILT, medium plasticity, slow dilatancy; soft; wet; dark gray (10YR 4/1). NOTE: Wet from 10.0 to 12.5' bgs.	
	3	10.0-15.0	5.0	0.0				
				0.0			(13.0 - 14.0') SAND and SILT, fine; well sorted; moist; black (10YR 2/1).	
				0.0			(14.0 - 15.0') SAND, medium, some coarse, subrounded to subangular; trace medium pebbles, subangular; well sorted; moist; gray (2.5Y 4/1).	
15 / -15							End of boring at 15.0' bgs.	

Well/Boring Construction



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Remarks: bgs = below ground surface
btoc = below top of casing

Hand Auger to 6.0' bgs. Approximately 20 gallons of drilling water used.

MW-10-13 (1-3) collected at 1420
MW-10-13 (8-10) collected at 1425

Date Start: 1/30/2014
Date Finish: 1/30/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 11.0'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **MW-10-14**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Overcast, 24 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
	1	0.0-6.0	6.0	NA			(0.0 - 1.3') CONCRETE.		1.0-2.0 bgs (Native Sand)
				2.4			(1.3 - 4.0') PEBBLE backfill, medium to large, subrounded to subangular.		0.5-5.0' bgs (2.0" Sch 40 PVC Well Casing)
				NA					
				NA					2.0-4.0' bgs (Medium Bentonite Chips)
5 / -5				0.0			(4.0 - 9.5') SAND, medium, subrounded to subangular; some small pebbles, subrounded; little medium pebbles, subrounded; trace silt; poorly sorted; dry; dark brown (10YR 3/2).		
				0.0					
	2	6.0-10.0	4.0	0.7					
				0.0					
				0.0					
				0.0			(9.5 - 10.0') CLAY and SILT, high plasticity, no dilatancy; stiff; moist; light grayish brown (2.5Y 5/2).		4.0-15.0' bgs (#1 Global Filter Pack Sand)
10 / -10				0.0			(10.0 - 11.0') SAND and SILT, fine; some CLAY, no dilatancy, slow plasticity; well sorted; moist; dark gray (2.5Y 4/1).		5.0-15.0' bgs (2.0" Sch 40, 10-Slot PVC Well Screen)
							NOTE: Wet at 11.0' bgs.		
				0.0			(11.0 - 12.5') SAND and SILT, fine; well sorted; moist; dark gray (2.5Y 4/1).		
	3	10.0-15.0	5.0	0.0			(12.5 - 15.0') SILT, nonplastic, no dilatancy; moist; black (10YR 2/1).		
				0.0					
				0.0					
15 / -15							End of boring at 15.0' bgs.		

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Remarks: bgs = below ground surface
btoc = below top of casing

Hand Auger to 6.0' bgs. Approximately 20 gallons of drilling water used.

MW-10-14 (4-6) collected at 1615
MW-10-14 (9-11) collected at 1620

Date Start: 1/31/2014
Date Finish: 1/31/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.0'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **MW-10-15**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Overcast, 26 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			(0.0 - 1.0') CONCRETE.		1.0-2.0 bgs (Native Sand); 0.5-5.0' bgs (2.0" Sch 40 PVC Well Casing); 2.0-4.0' bgs (Medium Bentonite Chips); 4.0-15.0' bgs (#1 Global Filter Pack Sand); 5.0-15.0' bgs (2.0" Sch 40, 10-Slot PVC Well Screen)
	1	0.0-6.0	6.0	0.4 0.8 1.4 5.7 0.3			(1.0 - 10.0') SAND, medium, subrounded to subangular; some small to medium pebbles, subrounded to subangular; trace large pebbles, subrounded; poorly sorted; dry; dark brown (10YR 3/3).		
5 / -5									
	2	6.0-10.0	4.0	0.0 0.0 0.0 0.0					
10 / -10							(10.0 - 15.0') SAND and SILT, fine; well sorted; wet; gray (10YR 4/1).	▼	
	3	10.0-15.0	5.0	129.3 190.4 245.0 30.9 33.8			NOTE: Wet at 10.0' bgs. Strong odor and black staining (10YR 2/1) from 10.0 to 13.5' bgs.		
15 / -15							End of boring at 15.0' bgs.		

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Remarks: bgs = below ground surface
btoc = below top of casing

Hand Auger to 6.0' bgs.

MW-10-15 (1-3) collected at 0935
MW-10-15 (8-10) collected at 0940
MW-10-15 (11-13) collected at 0945

Date Start/Finish: 4/9/13-4/9/13
Drilling Company: Stearns Drilling
Driller's Name: Brian Marshall
Drilling Method: Sonic
Sampling Method: Hand Auger/ 4" Core Barrel
Rig Type: Mini Sonic

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 20.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **SB-10-04**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0 / 0								
				NA			(0.0-1.0') CONCRETE.	
				1.2			(1.0-10.0') SAND, fine to medium, subrounded to subangular; some small pebbles, subrounded to subangular; little granules, subangular; trace silt; poorly sorted; dry; black (10YR 2/1). Note: Fill, rare debris (bolts).	
	1		5.0	0.0				
				8.1				
				14.8			Note: Slight odor from 4.0' bgs.	
5 / -5								
	2		1.0	1.3			Note: Wet at 6.0' bgs. Little recovery from 5.0-10.0' bgs.	
10 / -10								
				0.6			(10.0-12.0') Clay, lottle silt, high plasticity, slow dilatancy; trace very fine sand; moist; brown (10YR 4/3).	
				0.2				
				0.4			(12.0-13.0') SILT, non plastic, rapid dilatancy; little very fine sand, subrounded; dry; black (10YR 2/1).	
				0.0			(13.0-17.0') SAND, fine to medium, subrounded; trace granules; little silt; poorly sorted; moist; dark grayish brown (10YR 4/2).	
15 / -15	3		10.0	0.0				
				0.0				
				0.0				
				0.0			(17.0-20.0') CLAY, high plasticity, no dilatancy; moist; medium stiff; dark gray (10YR 4/1).	
				0.0				
				0.0				
20 / -20							End of boring at 20.0' bgs.	

Remarks: Hand Auger to 5.0' bgs.

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Date Start/Finish: 4/10/13-4/10-13
Drilling Company: Stearns Drilling
Driller's Name: Brian Marshall
Drilling Method: Sonic
Sampling Method: Hand Auger/ 4" Core Barrel
Rig Type: Mini Sonic

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 10.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **SB-10-02**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0 / 0				NA			(0.0-1.8') CONCRETE.	
	1	0.0-5.0	5.0	0.0			(1.8-7.5') SAND, fine, subrounded; well sorted; moist; black (10YR 2/1). Note: Slight odor, Fill (foundry sand).	
				0.0				
5 / -5				0.0				
				0.0				
	2	5.0-10.0	5.0	0.0			(7.5-8.0') CONCRETE.	
				0.0			(8.0-9.5') SAND, fine, subrounded; and SILT, low plasticity, poorly sorted; moist; soft; very dark gray (10YR 3/1).	
10 / -10				0.0			(9.5-10.0') CONCRETE.	
							End of boring at 10.0' bgs.	
15 / -15								
20 / -20								

Remarks: Hand Auger to 5.0' bgs.

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Date Start/Finish: 4/9/13-4/9/13
Drilling Company: Stearns Drilling
Driller's Name: Brian Marshall
Drilling Method: Sonic
Sampling Method: Hand Auger/ 4" Core Barrel
Rig Type: Mini Sonic

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 20.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **SB-10-04**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0 / 0				NA			(0.0-1.0') CONCRETE.	
	1	0.0-5.0	5.0	1.2 0.0 8.1 14.8			(1.0-10.0') SAND, fine to medium, subrounded to subangular; some small pebbles, subrounded to subangular; little granules, subangular; trace silt; poorly sorted; dry; black (10YR 2/1). Note: Fill, rare debris (bolts). Note: Slight odor from 4.0' bgs.	
5 / -5	2	5.0-10.0	1.0	1.3			Note: Wet at 6.0' bgs. Little recovery from 5.0-10.0' bgs.	
10 / -10				0.6			(10.0-12.0') Clay, little silt, high plasticity, slow dilatancy; trace very fine sand; moist; brown (10YR 4/3).	
				0.2				
				0.4			(12.0-13.0') SILT, non plastic, rapid dilatancy; little very fine sand, subrounded; dry; black (10YR 2/1).	
				0.0			(13.0-17.0') SAND, fine to medium, subrounded; trace granules; little silt; poorly sorted; moist; dark grayish brown (10YR 4/2).	
15 / -15	3	10.0-20.0	10.0	0.0 0.0 0.0				
				0.0			(17.0-20.0') CLAY, high plasticity, no dilatancy; moist; medium stiff; dark gray (10YR 4/1).	
				0.0 0.0 0.0				
20 / -20							End of boring at 20.0' bgs.	

Remarks: Hand Auger to 5.0' bgs.

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Date Start: 9/4/2013
Date Finish: 9/4/2013
Drilling Company: Cascade
Driller's Name: Ralph Winn, Dan O'Mara
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 12.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 566178.182
Easting: 13306102.698
Casing Elevation: NA

Borehole Depth (ft. bgs.): 16.0' bgs
Surface Elevation: 735.78

Descriptions By: D. Shaw

Well/Boring ID: **SB-10-05**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 75F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0				NA			(0.0 - 0.9') CONCRETE.		(0.0-0.9' bgs) CONCRETE
				3.3			(0.9 - 12.0') SAND, very fine to medium, subround; trace coarse to very coarse, subround; trace small to very large pebbles, subround to subangular; poorly sorted; dry; black (10YR 2/1).		
	1	0.0-5.0	5.0	3.0					
				2.6					
5 -5				3.3			Note: Slight odor from 0.9 to 12.0' bgs.		
				3.2					
				3.3					
				4.0					
				1.8					(0.9-16.0' bgs) Bentonite
				1.8					
10 -10							Note: Wet at 10.0' bgs.		
	2	5.0-16.0	11.0	1.8					
				2.3				▽	
				1.8			(12.0 - 14.0') SAND, very fine to fine, some silt; trace clay; poorly sorted; wet; black (10YR 2/1).		
				1.3					
				2.3			(14.0 - 16.0') SAND, very fine to fine, well sorted; wet; grayish brown (2.5Y 5/2).		
15 -15				1.5					
							Note: End of boring at 16.0' bgs.		
20 -20									

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Remarks: bgs = below ground surface

Hand auger to 5.0' bgs.

SB-10-05 (1-3) collected at 0950; SB-10-05 (4-6) collected at 0955; SB-10-05 (6-8) collected at 1000; SB-10-05 (8-10) collected at 1005; SB-10-05 (10-12) collected at 1010; SB-10-05 (12-14) collected at 1015; SB-10-05 (14-16) collected at 1020.

Date Start: 9/4/2013
Date Finish: 9/4/2013
Drilling Company: Cascade
Driller's Name: Ralph Winn, Dan O'Mara
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 566103.695
Easting: 13306114.513
Casing Elevation: NA

Borehole Depth (ft. bgs.): 16.0' bgs
Surface Elevation: 753.67

Descriptions By: D. Shaw

Well/Boring ID: **SB-10-06**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 75F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0				NA			(0.0 - 0.8') CONCRETE.		(0.0-0.8' bgs) CONCRETE
				1.3			(0.8 - 10.0') SAND, very fine to medium, subround; trace granules to medium pebbles, subround; poorly sorted; dry; very dark brown (10YR 2/2).		
	1	0.0-5.0	5.0	2.5					
				3.0					
5 / -5				2.5					
				2.0					
				1.6					
				1.6					
				2.0					(0.8-16.0' bgs) Bentonite
				6.0					
10 / -10									
	2	5.0-16.0	11.0	1.5			(10.0 - 14.0') SAND, very fine to very coarse, subround to subangular; little granules to large pebbles, subround; poorly sorted; wet; black (10YR 2/1). Note: Moderate odor from 10.0 to 14.0' bgs.		
				2.2					
				1.5					
				1.6					
				1.8			(14.0 - 16.0') SAND, very fine to fine, well sorted; wet; grayish brown (2.5Y 5/2).		
15 / -15				2.0					
							Note: End of boring at 16.0' bgs.		

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Remarks: bgs = below ground surface

Hand auger to 5.0' bgs.

SB-10-06 (1-3) collected at 1105; SB-10-06 (4-6) collected at 1110; SB-10-06 (6-8) collected at 1115; SB-10-06 (8-10) collected at 1120; SB-10-06 (10-12) collected at 1125; SB-10-06 (12-14) collected at 1130; and SB-10-06 (14-16) collected at 1135.

Date Start: 9/4/2013
Date Finish: 9/4/2013
Drilling Company: Cascade
Driller's Name: Ralph Winn, Dan O'Mara
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: 566152.577
Easting: 13306136.77
Casing Elevation: NA

Borehole Depth (ft. bgs.): 14.0' bgs
Surface Elevation: 753.53

Descriptions By: D. Shaw

Well/Boring ID: **SB-10-07**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 75F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0				1.0			(0.0 - 0.8') CONCRETE.		(0.0-0.8' bgs) CONCRETE
				1.5			(0.8 - 14.0') SAND, fine to medium, round; trace small pebbles, round; well sorted; dry; brown (10YR 5/3).		
	1	0.0-5.0	5.0	2.0					
				2.3					
5 / -5				2.3					
				2.1					
				2.2					(0.8-14.0' bgs) Bentonite
				2.0					
10 / -10	2	5.0-14.0	6.0	2.5					
				6.5			Note: Transition to very dark gray (10YR 3/1) with strong odor at 12.5' bgs.		
				41.9			Note: Obstruction at 14.0' bgs.		
							Note: End of boring at 14.0' bgs.		
15 / -15									
20 / -20									

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Remarks: bgs = below ground surface

Hand auger to 5.0' bgs.

SB-10-07 (1-3) collected at 1305; SB-10-07 (4-6) collected at 1310; SB-10-07 (6-8) collected at 1315; SB-10-07 (8-10) collected at 1320; SB-10-07 (10-12) collected at 1325; and SB-10-07 (12-14) collected at 1330.

Date Start: 9/04/2013
Date Finish: 9/04/2013
Drilling Company: Cascade Drilling
Driller's Name: Ralph Winn, Dan O'Mara
Drilling Method: Sonic
Sampling Method: 4.0' five foot Core Barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 8.0'
Water Level Finish (ft. btoc.): NA

Northing: 565734.647
Easting: 13306310.392
Casing Elevation: NA

Borehole Depth (ft. bgs.): 18.0
Surface Elevation: 749.343

Descriptions By: Drew Shaw

Well/Boring ID: **SB-10-08**
Client: RACER Trust

Location: Buick City, Flint, MI

Weather Conditions: Sunny, 75 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0							(0.0 - 0.8') CONCRETE		0.0-0.8' bgs Concrete
	1	0.0-5.0	5.0	5.3 12.5 18.0 7.6			(0.8 - 10.0') SAND, fine to medium, subrounded; well sorted, dry, black (10YR 2/1) NOTE: Intermixed yellowish brown sand (10YR 5/4); black is staining NOTE: Slight odor		
5 / -5				10.5 51.5 49.2					
				49.0 51.0			NOTE: Moist to wet at 8.0' bgs	▼	0.8-18.0' bgs Bentonite
10 / -10	2	5.0-16.0	8.3	140.0			(10.0 - 16.5') SAND, very fine to coarse, rounded; little silt; little debris (nails, bolts, wood, cloth, glass, steel); poorly sorted; wet to moist; black (10YR 2/1) NOTE: Strong odor NOTE: Moist at 12.0' bgs		
				142.0 51.5					
15 / -15				30.2					
	3	16.0-18.0	2	2.0 1.2			(16.5 - 18.0') SAND, fine to medium, subrounded; well sorted; wet; grayish brown (2.5Y 5/2)		
							NOTE: EOB at 18.0' bgs		

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Remarks: bgs = below ground surface

Hand auger to 5.0' bgs.

SB-10-08 (1-3) collected at 1425.
SB-10-08 (4-6) collected at 1430.
SB-10-08 (6-8) collected at 1435.
SB-10-08 (8-10) collected at 1440.
SB-10-08 (10-12) collected at 1445.
SB-10-08 (12-14) collected at 1450.
SB-10-08 (14-16) collected at 1520.
SB-10-08 (16-18) collected at 1525.

Date Start: 1/29/2014
Date Finish: 1/29/2014
Drilling Company: Cascade Drilling
Driller's Name: John Roberts, Andrew Roberts
Drilling Method: Sonic
Sampling Method: 4.0' five foot Core Barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 8.0'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **SB-10-08-08**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 5F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
	1	0.0-6.0	6.0	NA 1.3 0.0 0.0 1.8 1.8			(0.0 - 0.5') CONCRETE. (0.5 - 10.0') SAND, fine to medium, subrounded; well sorted; dry; black (10YR 2/1). NOTE: Some yellowish brown sand (10YR 5/4). NOTE: Staining and moderate odor from 0.5 to 10.0' bgs.		0.0-0.5' bgs (Concrete).
5 / -5									
	2	6.0-10.0	4.0	2.0 3.1 3.6 14.5			NOTE: Wet at 8.0' bgs.	▼	0.50-15.0' bgs (Bentonite).
10 / -10	3	10.0-15.0	5.0	2.9 0.5 0.0 0.0 0.0			(10.0 - 15.0') SAND, very fine to coarse, rounded; little silt; little debris (nails, bolts, wood, cloth, glass, steel); poorly sorted; wet; black (10YR 2/1).		
15 / -15							End of boring at 15.0' bgs.		

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Remarks: bgs = below ground surface

Hand auger to 6.0' bgs.

SB-10-08-08 (0.5-2) collected at 1105
SB-10-08-08 (4-6) collected at 1110
SB-10-08-08 (6-8) collected at 1115
SB-10-08-08 (8-10) collected at 1120
SB-10-08-08 (11-13) collected at 1125
SB-10-08-08 (13-15) collected at 1130

Date Start: 1/29/2014
Date Finish: 1/29/2014
Drilling Company: Cascade Drilling
Driller's Name: John Roberts, Andrew Roberts
Drilling Method: Sonic
Sampling Method: 4.0' five foot Core Barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 6.0'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **SB-10-08-09**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 10 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
				NA			(0.0 - 1.0') CONCRETE.		0.0-1.0' bgs (Concrete).
				0.0			(1.0 - 10.0') SAND, fine to medium, subrounded; well sorted; dry; black (10YR 2/1).		
				2.1			NOTE: Some yellowish brown sand (10YR 5/4).		
	1	0.0-6.0	6.0	2.9			NOTE: Staining and slight odor from 1.0 to 10.0' bgs.		
				1.3					
5 / -5				2.7					
				0.0			NOTE: Wet from 6.0 to 8.0' bgs.	▼	
				2.7					
	2	6.0-10.0	4.0	1.4					1.0-15.0' bgs (Bentonite).
10 / -10				15.4					
				0.0			(10.0 - 15.0') SAND, very fine to coarse, rounded; little silt; little debris (nails, bolts, wood, cloth, glass, steel); poorly sorted; wet; black (10YR 2/1).		
				0.0			NOTE: Wet from 10.0 to 11.5' bgs.		
	3	10.0-15.0	5.0	0.0					
				0.0					
15 / -15				0.0					
							End of boring at 15.0' bgs.		

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Remarks: bgs = below ground surface

Hand auger to 6.0' bgs.

SB-10-08-09 (1-2) collected at 1300
SB-10-08-09 (4-6) collected at 1305
SB-10-08-09 (6-8) collected at 1310
SB-10-08-09 (8-10) collected at 1315
SB-10-08-09 (11-13) collected at 1320
SB-10-08-09 (13-15) collected at 1325

Date Start: 1/29/2014
Date Finish: 1/29/2014
Drilling Company: Cascade Drilling
Driller's Name: John Roberts, Andrew Roberts
Drilling Method: Sonic
Sampling Method: 4.0' five foot Core Barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 6.0'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **SB-10-08-10**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Partly Sunny, 14 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			(0.0 - 1.0') CONCRETE.		0.0-1.0' bgs (Concrete).
				0.0			(1.0 - 10.0') SAND, fine to medium, subrounded; well sorted; dry; black (10YR 2/1).		
				5.2			NOTE: Some yellowish brown sand (10YR 5/4).		
	1	0.0-6.0	6.0	7.3			NOTE: Strong odor from 6.0 to 10.0' bgs.		
5 / -5				22.4					
				22.2				▼	
				5.5			NOTE: Wet from 6.0 to 8.0' bgs.		
	2	6.0-10.0	4.0	26.9					1.0-15.0' bgs (Bentonite).
				13.4					
10 / -10				17.2					
				7.0			(10.0 - 15.0') SAND, very fine to coarse, rounded; little silt; little debris (nails, bolts, wood, cloth, glass, steel); poorly sorted; wet; black (10YR 2/1).		
				2.0			NOTE: Wet from 10.0 to 11.5' bgs.		
	3	10.0-15.0	5.0	0.3					
				0.0					
15 / -15				0.0					
							End of boring at 15.0' bgs.		

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Remarks: bgs = below ground surface

Hand auger to 6.0' bgs.

SB-10-08-10 (1-3) collected at 1340
SB-10-08-10 (4-6) collected at 1345
SB-10-08-10 (6-8) collected at 1350
SB-10-08-10 (8-10) collected at 1355
SB-10-08-10 (11-13) collected at 1400
SB-10-08-10 (13-15) collected at 1405

Date Start: 10/14/2013
Date Finish: 10/14/2013
Drilling Company: Cascade
Driller's Name: Steve Gross, Steve Argue
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 7.0' bgs
Water Level Finish (ft. btoc.): NA

Northing:
Easting:
Casing Elevation: NA

Borehole Depth (ft. bgs.): 20.0'
Surface Elevation:

Descriptions By: A. Richmond

Well/Boring ID: **SB-10-09**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 55F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
				0.4			(0.0 - 2.0') SAND, fine, little silt; little granules, angular; trace large pebbles, subangular; poor sort; dry; very dark brown (10YR 2/2).		(0.0-0.5' bgs) FILL
				0.4			Note: Concrete chunks from 0.0 to 2.0' bgs.		
	1	0.0-5.0	5.0	0.7			(2.0 - 4.0') SAND, fine, little medium, little silt, little large pebbles, subangular; little granules, angular; poorly sorted; dry; dark brown (10YR 3/3).		
				0.1			Note: SLAG (metal chunks, etc.) from 2.0 to 4.0' bgs.		
				27.2			(4.0 - 5.0') SAND, medium, little fine, little silt, trace medium pebbles, poorly sorted; moist; black (10YR 2/1).		
5 -5							Note: Strong odor and staining.		
				51.4			(5.0 - 7.0') SILT, nonplastic, rapid dilatancy, trace sand, fine, moist; medium stiff; black (10YR 2/1).		
				23.4			Note: SLAG (nails, fence metal, etc.), little odor, and staining from 5.0 to 7.0' bgs.		
	2	5.0-10.0	5.0	1.6			(7.0 - 9.0') SAND, medium, little silt, little granules, subangular; poorly sorted; wet; black (10YR 2/1).		
				65.7			Note: Wet at 7.0' bgs. Strong odor and staining from 7.0 to 9.0' bgs.		
				7.4			(9.0 - 10.0') SAND, coarse, some granules, angular; poorly sorted; moist; very dark gray (2.5Y 3/1).		
10 -10							Note: Little odor from 9.0 to 10.0' bgs.		(0.5-20.0' bgs) Bentonite
				0.2			(10.0 - 11.0') SILT, nonplastic, slow dilatency, dry; stiff; very dark brown (10YR 2/2).		
				0.3			(11.0 - 16.0') SAND, medium, little silt, little granules, subangular; trace medium pebbles, angular; poorly sorted; wet; very dark gray (10YR 3/1).		
	3	10.0-15.0	5.0	1.5					
				1.1					
				1.2					
15 -15									
				0.1					
				0.0			(16.0 - 20.0') CLAY, low plasticity, slow dilatancy, dry; medium stiff; dark gray (10YR 4/1).		
	4	15.0-20.0	5.0	0.1					
				0.0					
				0.0			End of Boring at 20.0' bgs.		

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Remarks: bgs = below ground surface

Hand auger to 5.0' bgs.

SB-10-09 (2-4) collected at 1120; SB-10-09 (4-6) collected at 1130; SB-10-09 (6-8) collected at 1140; SB-10-09 (8-10) collected at 1150; and SB-10-09 (10-12) collected at 1200.

Date Start: 10/14/2013
Date Finish: 10/14/2013
Drilling Company: Cascade
Driller's Name: Steve Gross, Steve Argue
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 6.0' bgs
Water Level Finish (ft. btoc.): NA

Northing:
Easting:
Casing Elevation: NA

Borehole Depth (ft. bgs.): 20.0'
Surface Elevation:

Descriptions By: A. Richmond

Well/Boring ID: **SB-10-10**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 60F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0				NA			(0.0 - 1.0') CONCRETE.		(0.0-1.0' bgs) CONCRETE
				23.8			(1.0 - 2.0') SAND, medium, some small pebbles, angular; poorly sorted; dry; black (10YR 2/1).		
	1	0.0-5.0	5.0	102			(2.0 - 10.0') SAND, fine, little silt, little medium pebbles, angular; poorly sorted; moist; black (10YR 2/1). Note: Moderate odor and staining from 1.0 to 2.0' bgs.		
				97.6					
				88.7					
5 / -5				29.8					
				36.3			Note: Wet at 6.0' bgs. Strong odor, staining, and slag (nails, metal chunks, etc.) from 2.0 to 10.0' bgs.		
	2	5.0-10.0	5.0	35.9					
				22.2					
				124					
10 / -10				152			(10.0 - 13.0') SAND, medium, little silt, little small pebbles, subround; poorly sorted; wet; very dark grayish brown (2.5Y 3/2).		(1.0-20.0' bgs) Bentonite
				71.4			Note: Strong odor and staining from 10.0 to 13.0' bgs.		
	3	10.0-15.0	5.0	0.7					
				0.5			(13.0 - 16.0') SILT, nonplastic, no dilatency, some medium pebbles, subround; little large pebbles, subround; dry; medium stiff; olive gray (5Y 4/2).		
				0.1					
15 / -15				0.0					
				0.0			(16.0 - 20.0') CLAY, high plasticity, no dilatency, trace small pebbles, subangular; dry; stiff; dark gray (2.5Y 4/1).		
	4	15.0-20.0	5.0	0.0					
				0.0					
				0.0			Note: End of boring at 20.0' bgs.		

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Remarks: bgs = below ground surface

Hand auger to 5.0' bgs.

SB-10-10 (2-4) collected at 1440; SB-10-10 (4-6) collected at 1450; SB-10-10 (6-8) collected at 1500; SB-10-10 (8-10) collected at 1505; and SB-10-10 (10-12) collected at 1510.

Date Start: 10/14/2013
Date Finish: 10/14/2013
Drilling Company: Cascade
Driller's Name: Steve Gross, Steve Argue
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 6.0' bgs
Water Level Finish (ft. btoc.): NA

Northing:
Easting:
Casing Elevation: NA

Borehole Depth (ft. bgs.): 20.0'
Surface Elevation:

Descriptions By: A. Richmond

Well/Boring ID: **SB-10-11**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 65F

DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0	0				0.6			(0.0 - 1.0') SAND, fine, trace large pebbles, subangular; poorly sorted; dry; very dark brown (10YR 2/2).		(0.0-0.5' bgs) FILL
					0.9			Note: Slag from 0.0 to 1.0' bgs (brick and metal chunks).		
		1	0.0-5.0	5.0	0.5			(1.0 - 2.0') SAND, medium, little granules, subangular; trace small pebbles, subangular to subround; well sorted; dry; light olive brown (2.5Y 5/4).		
					0.4			(2.0 - 5.0') SAND, fine, trace medium pebbles, subround; poorly sorted; dry; very dark brown (10YR 2/2).		
					0.6			Note: Slag (metal chunks, tire debris, nails) from 2.0 to 5.0' bgs.		
5	-5							Note: Fill from 1.0 to 2.0' bgs.		
					73.2			(5.0 - 10.0') SAND, fine, some silt, trace medium pebbles, subangular to subround; poorly sorted; wet; black (10YR 2/1).		
					59.3					
		2	5.0-10.0	5.0	23.7			Note: Slag (metal chunks, tire debris, nails) and strong odor with staining from 5.0 to 7.0' bgs.		
					15.4					
					7.4					
10	-10							(10.0 - 20.0') SAND, medium, little granules, subangular to subround; well sorted; wet; olive gray (5Y 4/2).		(0.5-20.0' bgs) Bentonite
					2.3					
					1.1					
		3	10.0-15.0	5.0	1.0					
					1.1					
					0.9					
15	-15									
					1.0					
					0.9					
		4	15.0-20.0	5.0	0.9					
					0.8					
					0.8			Note: End of Boring at 20.0' bgs.		

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Remarks: bgs = below ground surface

Hand auger to 5.0' bgs.

SB-10-11 (4-6) collected at 1620; SB-10-11 (6-8) collected at 1630; SB-10-11 (8-10) collected at 1635; and SB-10-11 (10-12) collected at 1640.

Date Start: 12/04/2013 **Date Finish:** 12/04/2013 **Drilling Company:** Cascade Drilling **Driller's Name:** John Roberts **Drilling Method:** Sonic **Sampling Method:** 5.0' Core Barrel **Rig Type:** Sonic **Water Level Start (ft. bgs.):** 11.0 **Water Level Finish (ft. btoc.):** 11.5	**Northing:** **Easting:** **Casing Elevation:** **Borehole Depth (ft. bgs.):** 15.0 **Surface Elevation:** **Descriptions By:** Drew Shaw	**Well/Boring ID:** **TW-10-04-1** **Client:** RACER Buick City **Location:** Flint, MI **Weather Conditions:** Overcast, 35 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0.0-5.0	1.5	0.5			(0.0 - 3.5') CONCRETE		0.0-0.5' bgs (Filter Pack) +2.0-5.0' bgs (2.0" Sch. 40 PVC Casing) 0.5-3.0' bgs (Bentonite)
				0.9			(3.5 - 7.0') SAND, very fine to medium, subrounded; little small to large pebbles, subangular; poorly sorted; dry; dark brown (10YR 3/3)		
5 / -5	2	5.0-10.0	4.0	1.5					
				6.5					
				7.5			(7.0 - 15.0') SAND, fine to medium, round; trace silt; trace small pebbles, round; poorly sorted; dry; black (10YR 2/1)		
				6.9			NOTE: staining observed		
				3.0					3.0-15.0' bgs (Filter Pack) 5.0-15.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
10 / -10	3	10.0-15.0	3.0	2.3				▼	
				1.5			NOTE: wet at 11.0' bgs		
				1.0					
				2.3					
				2.0			NOTE: EOB at 15.0' bgs		
15 / -15									

Remarks: Hand Auger to 5.0' bgs

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Date Start: 12/02/2013
Date Finish: 12/02/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts
Drilling Method: Sonic
Sampling Method: 5.0' Core Barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 6.0
Water Level Finish (ft. btoc.): 8.0

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 15.0
Surface Elevation:

Descriptions By: Drew Shaw

Well/Boring ID: **TW-10-08-1**

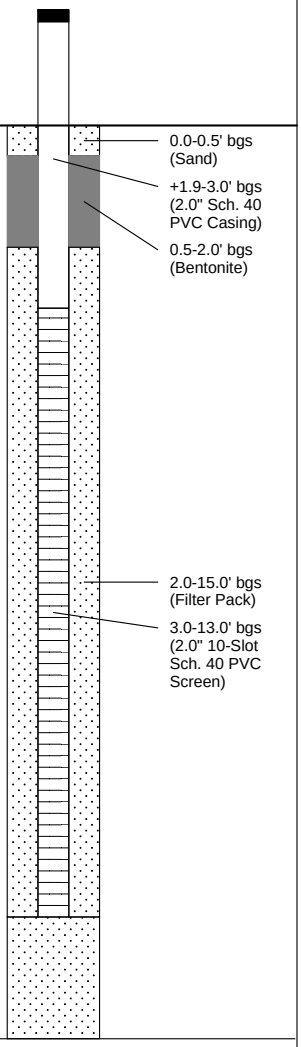
Client: RACER Buick City

Location: Flint, MI

Weather Conditions: Overcast, 35 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0							(0.0 - 0.8') CONCRETE	
				0.4			(0.8 - 6.0') SAND, fine to medium; subrounded; well sorted; dry; very dark grayish brown (10YR 3/2)	
	1	0.0-5.0	4.0	0.4				
				0.4				
				0.0				
5 / -5				37.4				
				37.9			(6.0 - 13.0') SAND, very fine to medium, subrounded; some silt; trace clay; poorly sorted; wet; black (10YR 2/1)	
	2	5.0-10.0	5.0	39.0			NOTE: Contains debris (wood; metal; glass; slag) and strong odor at 6.0-8.0' bgs NOTE: Moist at 8.0' bgs	
				159.1				
10 / -10				62.1				
				13.0				
	3	10.0-15.0	5.0	12.5				
				7.1				
				1.0			(13.0 - 15.0') SAND, fine to medium, subrounded; well sorted; moist; gray (10YR 6/1)	
				0.7			NOTE: EOB at 15.0' bgs	
15 / -15								

Well/Boring Construction



Remarks: Hand Auger to 5.0' bgs

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Date Start: 1/29/2014
Date Finish: 1/29/2014
Drilling Company: Cascade Drilling
Driller's Name: John Roberts, Andrew Roberts
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 5.0'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 10.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **TW-10-08-02**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 14F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
				0.0			(0.0 - 1.0') CONCRETE.		0.0-1.0' bgs (Concrete).
				0.0			(1.0 - 4.0') SAND, very fine to medium, subrounded; some large pebbles, subangular; poorly sorted; dry; black (10YR 2/1).		
	1	0.0-5.0	5.0	0.0					
				0.0					
				0.0			(4.0 - 10.0') SAND, very fine to medium, subrounded; some silt; some debris; poorly sorted; moist; black (10YR 2/1).		
5 / -5							NOTE: Wet at 5.0' bgs.	▼	1.0-10.0' (Bentonite).
				11.7					
				10.3					
	2	5.0-10.0	5.0	58.2					
				135.3					
				133.8					
10 / -10							End of boring at 10.0' bgs.		
15 / -15									

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Remarks: bgs = below ground surface

Sample TW-10-08-02 (1-3) collected at 1435
Sample TW-10-08-02 (6-8) collected at 1440

Date Start: 12/03/2013
Date Finish: 12/03/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts
Drilling Method: Sonic
Sampling Method: 5.0' Core Barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 5.0'
Water Level Finish (ft. btoc.): 7.5'

Northing:
Easting:
Casing Elevation: Drew Shaw

Borehole Depth (ft. bgs.): 15.0
Surface Elevation:

Descriptions By: Drew Shaw

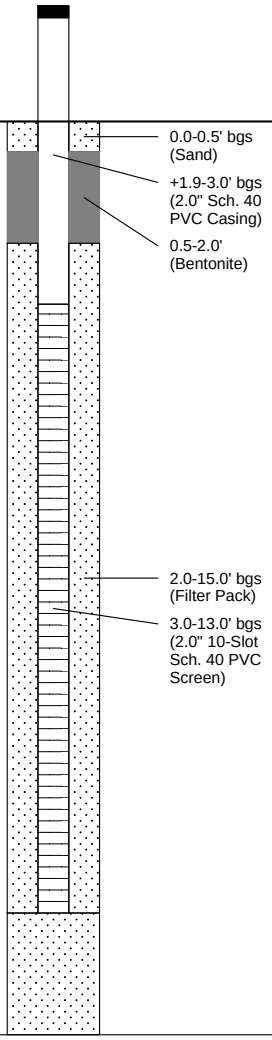
Well/Boring ID: **TW-10-08-2**
Client: RACER Buick City

Location: Flint, MI

Weather Conditions: Overcast, 35 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0							(0.0 - 0.8') CONCRETE	
				2.2			(0.8 - 4.0') SAND, very fine to medium, subrounded; some large pebbles, subangular; poorly sorted; dry; black (10YR 2/1)	
	1	0.0-5.0	4.0	2.6				
				13.5				
				14.9			(4.0 - 13.0') SAND, very fine to medium, subrounded; some silt; some debris; poorly sorted; moist; black (10YR 2/1)	
5 / -5							NOTE: Wet from 5.0-6.0' bgs	▼
				44.5				
				70.1				
	2	5.0-10.0	5.0	450				
				504				
				368				
10 / -10							NOTE: Wet from 10.0-13.0' bgs	
				30.1				
				15.1				
	3	10.0-15.0	5.0	10.1				
				10.5			(13.0 - 15.0') SAND, fine to medium, subrounded; well sorted; moist; gray (10YR 6/1)	
				7.9			NOTE: EOB at 15.0' bgs	
15 / -15								

Well/Boring Construction



Remarks: Hand Auger to 5.0' bgs

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Date Start: 12/03/2013
Date Finish: 12/03/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts
Drilling Method: Sonic
Sampling Method: 5.0' Core Barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 6.0
Water Level Finish (ft. btoc.): 8.0

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 15.0
Surface Elevation:

Descriptions By: Drew Shaw

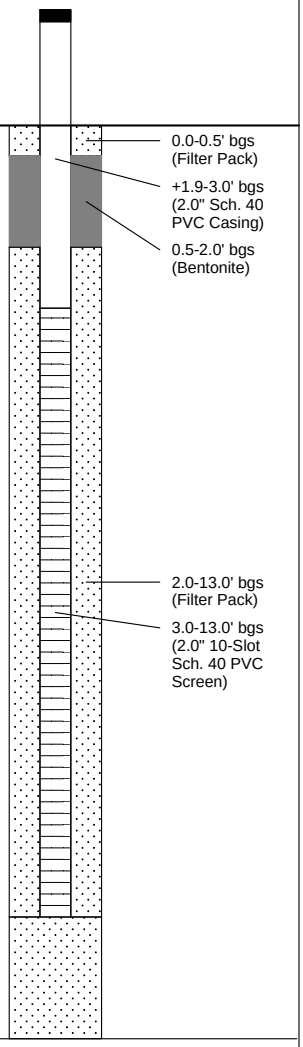
Well/Boring ID: **TW-10-08-3**

Client: RACER Buick City

Location: Flint, MI

Weather Conditions: Overcast, 35 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0							(0.0 - 0.8') CONCRETE	
				2.4			(0.8 - 4.0') SAND, very fine to medium, subrounded; poorly sorted; dry; black (10YR 2/1)	
	1	0.0-5.0	4.0	2.0				
				2.1				
				1.2			(4.0 - 13.0') SAND, very fine to medium, subrounded; some silt; some debris; poorly sorted; moist; black (10YR 2/1)	
5 / -5				20.1				
				30.1			NOTE: Wet at 6.0-7.0' bgs and dry at 7.0-10.0' bgs	
	2	5.0-10.0	5.0	77.1				
				204				
				250				
10 / -10				130			NOTE: Wet at 10.0' bgs, possible product, moderate odor	
				77.5				
	3	10.0-15.0	4.0	45.6				
				20.1			(13.0 - 15.0') SAND, fine to medium, subrounded; well sorted; moist; gray (10YR 6/1)	
				10.5			NOTE: EOB at 15.0' bgs	
15 / -15								



Remarks: Hand Auger to 5.0' bgs

ARCADIS
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Date Start: 12/03/2013
Date Finish: 12/03/2013
Drilling Company: Cascade
Driller's Name: John Roberts
Drilling Method: Sonic
Sampling Method: 5.0' Core Barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 4.0
Water Level Finish (ft. btoc.): 6.0

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 15.0
Surface Elevation:

Descriptions By: Drew Shaw

Well/Boring ID: **TW-10-08-4**

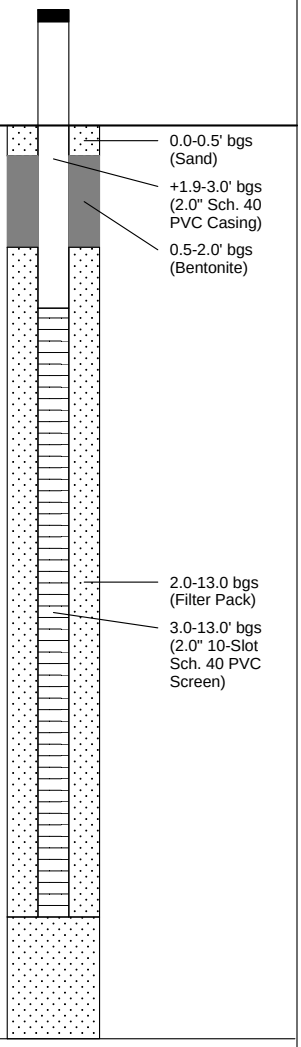
Client: RACER Buick City

Location: Flint, MI

Weather Conditions: Overcast, 35 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0							(0.0 - 1.0') CONCRETE	
				0.4			(1.0 - 3.0') SAND, fine to medium, subrounded; little small pebbles, subrounded; poorly sorted; dry; black (10YR 2/1)	
	1	0.0-5.0	4.0	0.4				
				0.5			(3.0 - 8.0') SAND, very fine to medium, subrounded; trace granules, subangular; poorly sorted; moist; yellowish brown (10YR 5/4)	▼
				0.2			NOTE: dark gray staining; wet at 4.0' bgs	
5 / -5				10.5				
				10.9				
	2	5.0-10.0	5.0	14.8				
				19.5			(8.0 - 13.0') SAND, very fine to medium, subrounded; some silt; some debris; poorly sorted; moist; black (10YR 2/1)	
				44.2			NOTE: moderate odor and product present	
10 / -10				39.5				
				20.5				
	3	10.0-15.0	5.0	5.1				
				2.5			(13.0 - 15.0') SAND, fine to medium, subrounded; well sorted; moist; gray (10YR 6/1)	
				1.1			NOTE: EOB at 15.0' bgs	
15 / -15								

Well/Boring Construction



Remarks: Hand Auger to 5.0' bgs

ARCADIS
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Date Start: 12/03/2013
Date Finish: 12/03/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts
Drilling Method: Sonic
Sampling Method: 5.0' Core Barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 4.0
Water Level Finish (ft. btoc.): 6.0

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 15.0
Surface Elevation:

Descriptions By: Drew Shaw

Well/Boring ID: **TW-10-08-5**

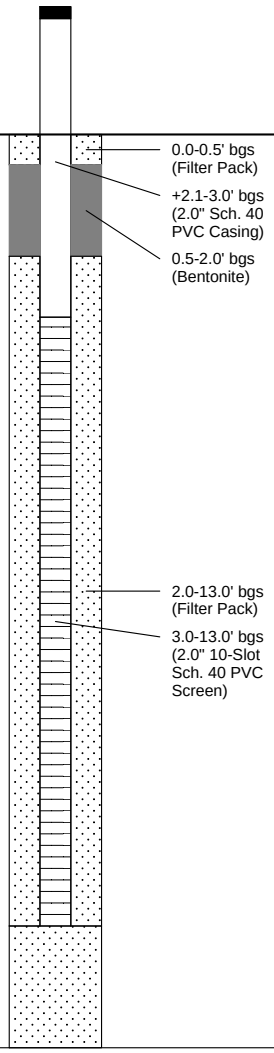
Client: RACER Buick City

Location: Flint, MI

Weather Conditions: Overcast, 35 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0							(0.0 - 0.9') CONCRETE	
				0.4			(0.9 - 12.0') SAND, fine to medium, subrounded; some silt; some pebbles, subangular to subrounded; poorly sorted; dry; black (10YR 2/1)	
	1	0.0-5.0	4.0	0.2			NOTE: mild odor and staining; debris located at 7.5-13.0'	
				0.2				
				0.2			NOTE: wet at 4.0' bgs	▼
5 / -5								
				4.2				
				4.7				
	2	5.0-10.0	5.0	50.0				
				41.0				
				76.5				
10 / -10								
				19.0				
				19.9				
	3	10.0-15.0	5.0	1.5			(12.0 - 15.0') SAND, fine to medium, subrounded; some silt; trace pebbles, subangular to subrounded; poorly sorted; moist; dark gray (2.5Y 3/1)	
				0.8			NOTE: mild odor and staining	
				2.1			NOTE: EOB at 15.0' bgs	
15 / -15								

Well/Boring Construction



Remarks: Hand Auger to 5.0' bgs

ARCADIS
Infrastructure · Water · Environment · Buildings

Date Start: 12/04/2013
Date Finish: 12/04/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts
Drilling Method: Sonic
Sampling Method: 5.0' Core Barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 4.5
Water Level Finish (ft. btoc.): 5.5

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 15.0
Surface Elevation:

Descriptions By: Drew Shaw

Well/Boring ID: **TW-10-08-6**

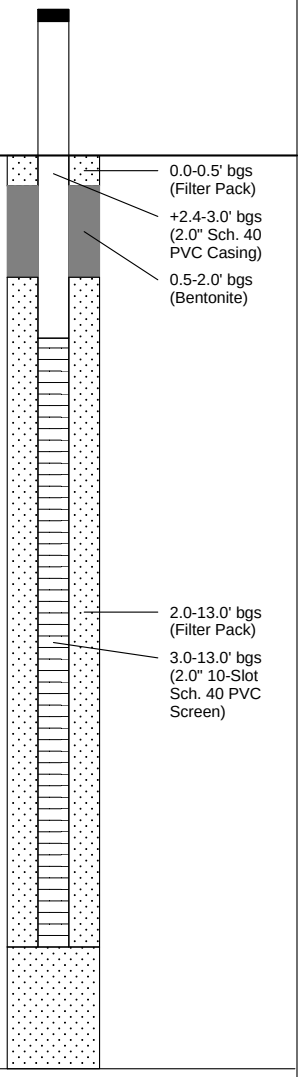
Client: RACER Buick City

Location: Flint, MI

Weather Conditions: Overcast, 35 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0	1	0.0-5.0	4.0	0.0 0.1 0.4 0.2 0.3			(0.0 - 4.0') SAND, very fine to medium, subrounded; some small to very large pebbles, subrounded; poorly sorted; dry; very dark brown (10YR 2/2	
5 / -5	2	5.0-10.0	4.0	45.1 89.5 415 350 79.1			(4.0 - 13.0') SAND, very fine to medium, subrounded; some silt; some debris; poorly sorted; moist; black (10YR 2/1) NOTE: wet at 4.5' bgs; moderate odor from 4.0-13.0' bgs	▼
10 / -10	3	10.0-15.0	4.0	218 233 65.5 30.1 1.1			(13.0 - 15.0') SAND, fine to medium, subround; well sorted; moist; gray (10YR 6/1) NOTE: EOB at 15.0' bgs	
15 / -15								

Well/Boring Construction



Remarks: Hand Auger to 5.0' bgs

ARCADIS
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Date Start: 12/04/2013
Date Finish: 12/04/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts
Drilling Method: Sonic
Sampling Method: 5.0' Core Barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 12.0
Water Level Finish (ft. btoc.): 5.5

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 15.0
Surface Elevation:

Descriptions By: Drew Shaw

Well/Boring ID: **TW-10-08-7**

Client: RACER Buick City

Location: Flint, MI

Weather Conditions: Overcast, 35 F

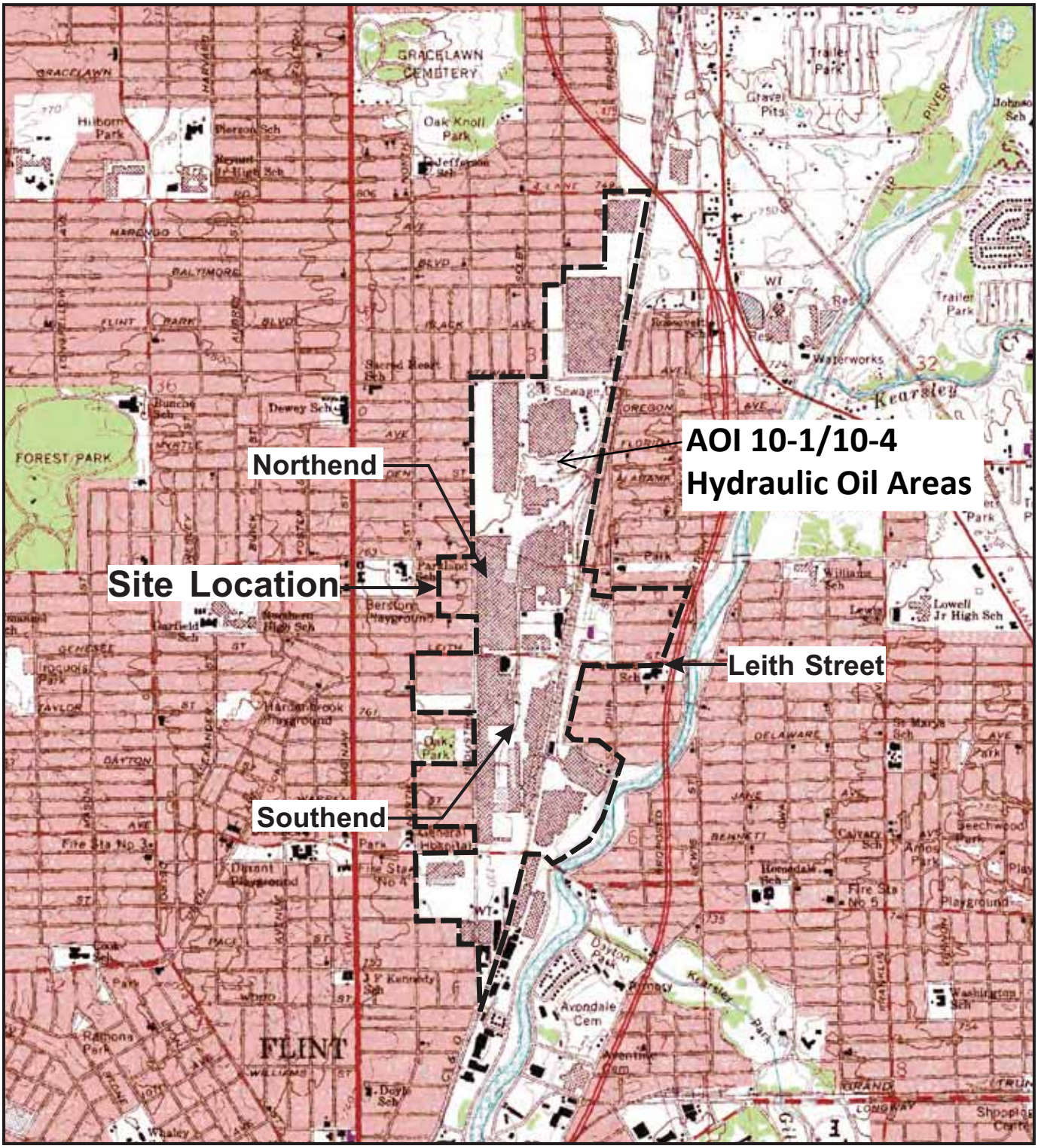
DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
	1	0.0-5.0	4.0	0.1			(0.0 - 4.0') SAND, very fine to medium, subrounded; some small to very large pebbles, subrounded to subangular; poorly sorted; dry; very dark brown (10YR 2/2)		0.0-0.2' bgs (Filter Pack); +2.0-3.0' bgs (2.0" Sch. 40 PVC Casing); 0.5-2.0' bgs (Bentonite)
				0.4					
				1.2					
				2.0					
				2.7			(4.0 - 13.0') SAND, very fine to medium, subrounded; some silt; some debris; poorly sorted; moist; black (10YR 2/1)		
5 / -5				60.5					
				332					
	2	5.0-10.0	5.0	321					2.0-13.0' bgs (Filter Pack); 3.0-13.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
				285					
				65.5					
10 / -10				79.1					
				330				▼	
	3	10.0-15.0	5.0	335			NOTE: wet at 12.0'bgs		
				275			(13.0 - 15.0') SAND, fine to medium, subrounded; well sorted; moist; gray (10YR 6/1)		
				2.1			NOTE: EOB at 15.0' bgs		
15 / -15									

Remarks: Hand Auger to 5.0' bgs

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ARCADIS

Figures



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quad., Flint North, Mich. (1969, Photorevised 1975).

2000' 0 2000'

Approximate Scale: 1" = 2000'



Area Location

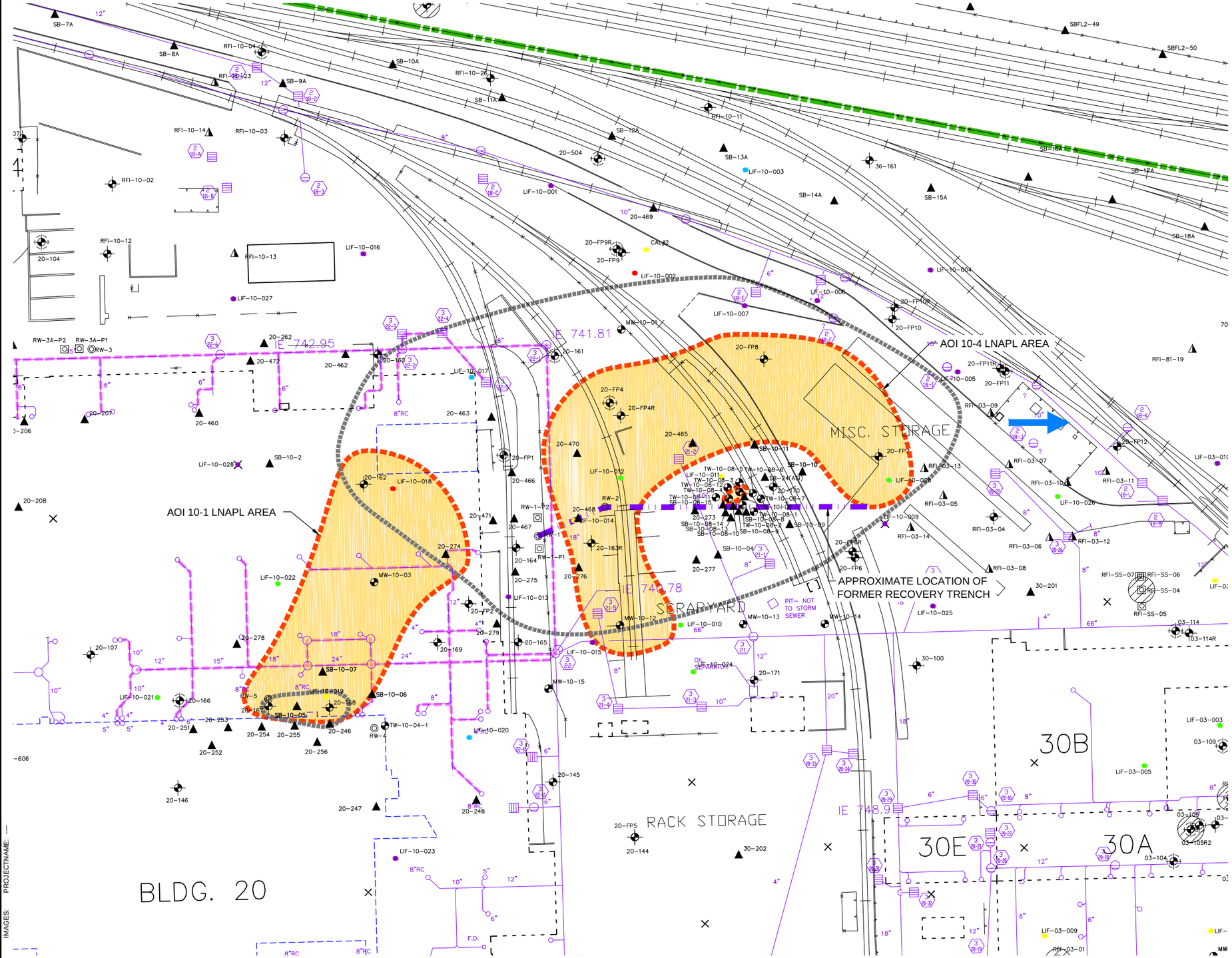
RACER TRUST
BUICK CITY, FLINT, MICHIGAN

SITE LOCATION MAP

ARCADIS

FIGURE
D1-1

03/12/2012 SYRACUSE, NY-ENV/CAD-141-DJHOWES
B0064410/2012/01202/CDR/64410N01.CDR



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- STORM SEWER LINE
- APPROXIMATE LOCATION OF RECOVERY TRENCH
- GENERAL GROUNDWATER FLOW DIRECTION
- ABANDONED STORM SEWER LATERALS

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200
- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 50' 100'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 10-1/10-4 INVESTIGATION LOCATIONS AND LNAPL EXTENTS

ARCADIS

FIGURE
D1-2

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIVE\B0064410\2014\0020618\64410_AOI 10-1-4.dwg LAYOUT: D1-2 SAVED: 9/4/2014 5:01 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 9/4/2014 5:17 PM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME: ----

LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- ESTIMATED AREA WHERE INORGANICS EXCEED MICHIGAN PART 201 GSI CRITERIA
- STORM SEWER LINE
- APPROXIMATE LOCATION OF RECOVERY TRENCH
- GENERAL GROUNDWATER FLOW DIRECTION
- ABANDONED STORM SEWER LATERALS

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 50' 100'
APPROXIMATE SCALE IN FEET

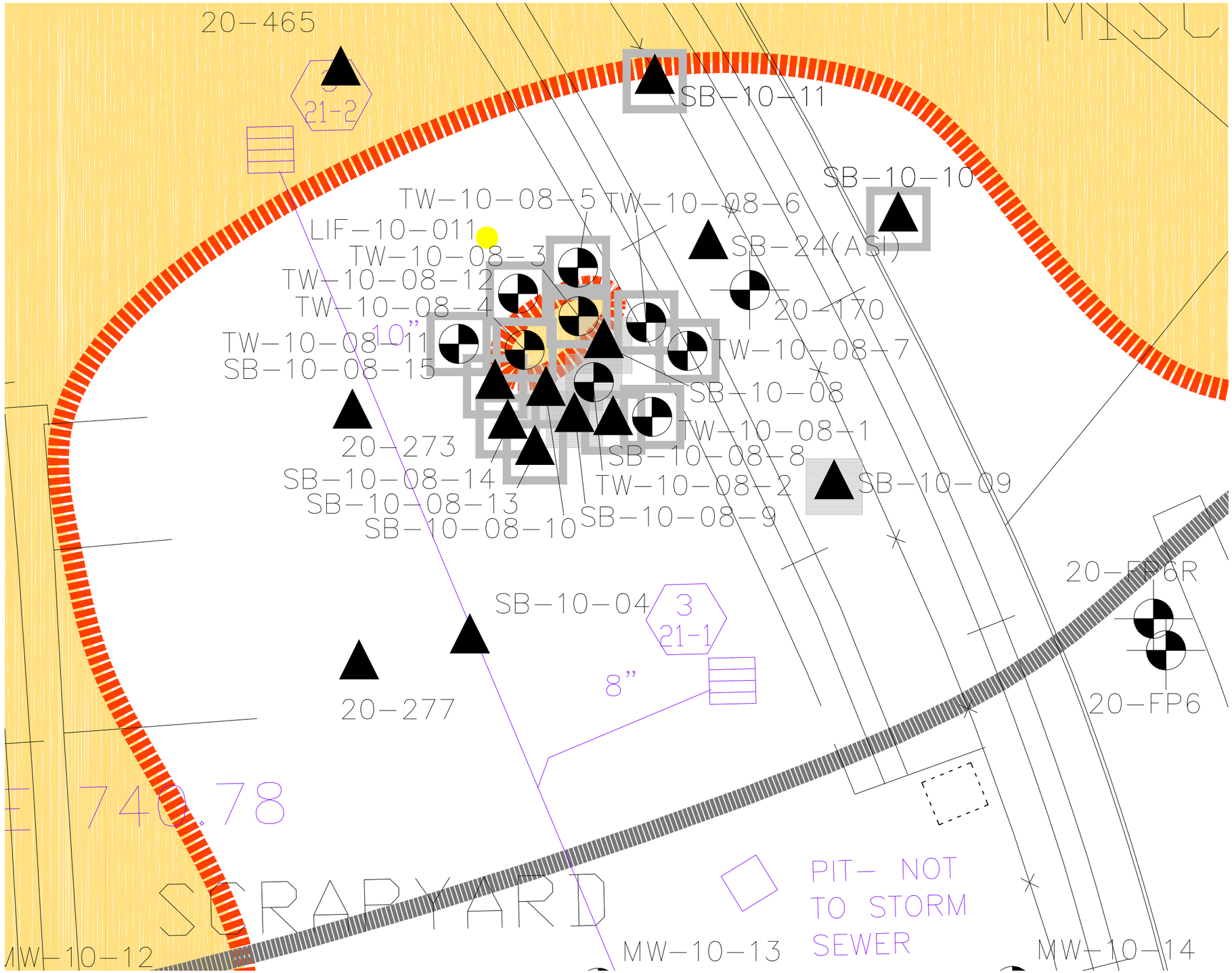
RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 10-1/10-4
DISSOLVED PHASE PLUMES

ARCADIS

FIGURE
D1-3

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIVE\B0064410\2014\0020\B64410_AOI 10-1-4.dwg LAYOUT: D1-3 SAVED: 9/4/2014 5:01 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ----
IMAGES: PROJECTNAME: ---- PLOTSTYLETABLE: ---- PLOTTED: 9/4/2014 5:17 PM BY: SANCHEZ, ADRIAN



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- STORM SEWER LINE
- PCB CONCENTRATIONS IN SOIL EXCEED NONRESIDENTIAL DIRECT CONTACT CRITERIA
- PCB CONCENTRATIONS IN SOIL ARE BELOW NONRESIDENTIAL DIRECT CONTACT CRITERIA

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5-10
- 10-100
- 100-200
- >200

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 10' 20'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 10-4
PCB DELINEATION

ARCADIS

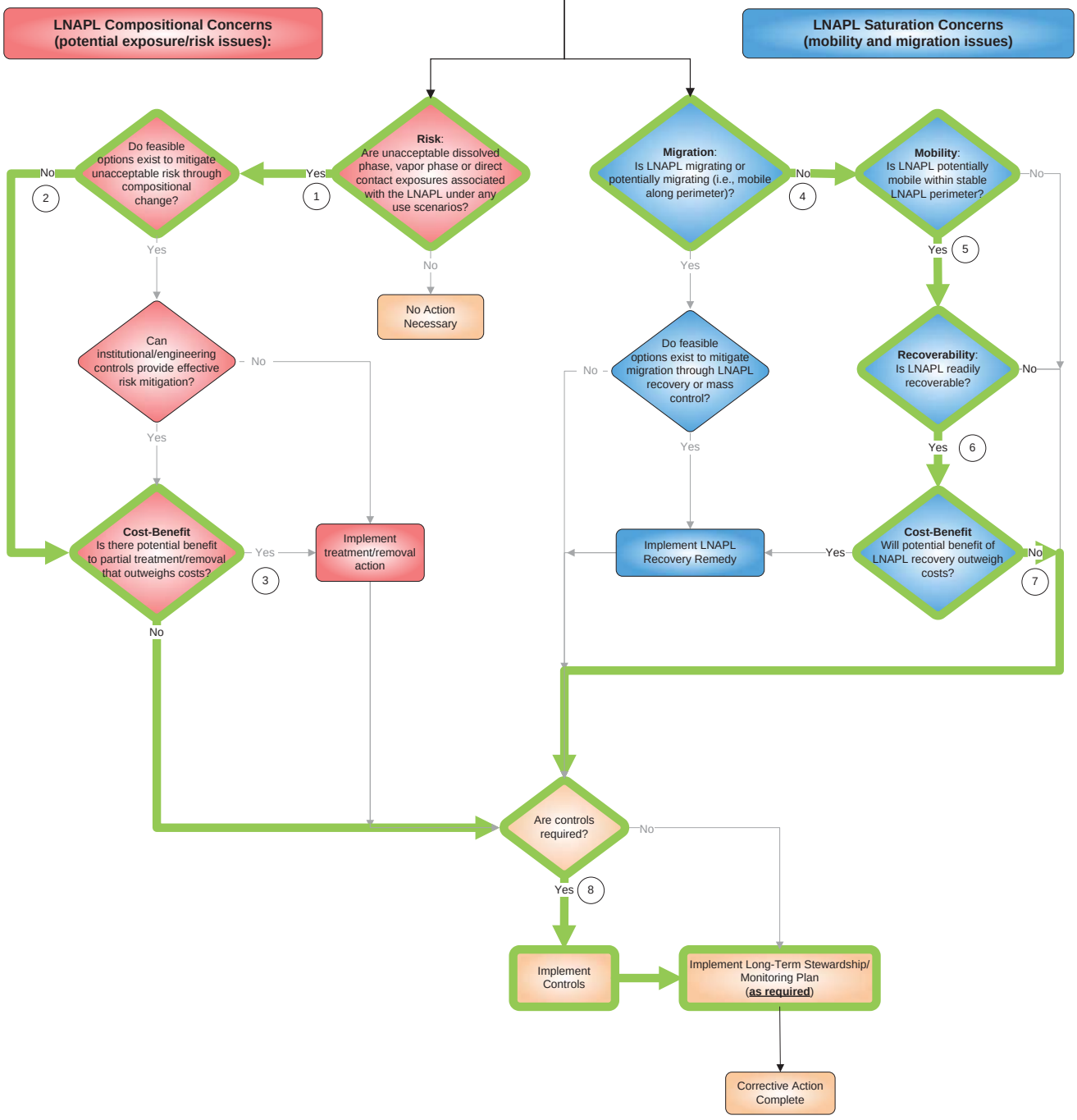
FIGURE
D1-4

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB0064410\2014\0020\IB64410_AOI 10-1-4.dwg LAYOUT: D1-4 SAVED: 9/4/2014 5:01 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ----
IMAGES: PROJECTNAME: ----

Attachment 2

LNAPL Remedial Decision Tree

Attachment 2 LNAPL Remedial Decision Tree Priority #5 – AOI 10-1/10-4 Hydraulic Oil Area



NOTES

(#) ▶ NOTES: See Page D2-2

Please see Appendix W for the LNAPL Remedial Decision Tree Template that lists additional sources of pertinent information used in the evaluation of the decision points (i.e. tables).

Attachment 2 Notes

Priority #5 - AOI 10-1/10-4 Hydraulic Oil Area

Background: The AOI 10-1/10-4 Hydraulic Oil LNAPL Area is located in the Northend of the Site near the southern portion of the former Factory 10 footprint. Historically, the Factory 10 area was primarily used for metal cutting and shaping operations for transmission and engine component production. The AOI 10-1/10-4 LNAPL Areas are presumably due to historical releases associated with operations in this area. There are currently no buildings within the AOI 10-1/10-4 LNAPL Areas footprint.

Geology and Hydrogeology: The soils at AOI 10-1/10-4 consist primarily of fill material/foundry Sand down to approximately 15 feet bgs inside the former building footprint and approximately 9 feet bgs outside the former building footprint. The fill material is underlain by fine to medium sands to depths of 22 feet bgs inside the former building footprint and 17 feet bgs outside the former building footprint. Outside of the former building footprint, the fine to medium sand is underlain by a clay layer ranging from 17 to 19 feet bgs. Depth to groundwater in this area varies greatly and has been measured as shallow as 3.26 feet bgs, as deep as 20.85 feet bgs, and averages around 10 feet bgs. Based on historic fluid level gauging data, groundwater flow in this portion of the Site is generally to the south-southeast.

LNAPL Characteristics: Logs indicate evidence of LNAPL impacts from as shallow as 7 feet bgs and as deep as 17 feet bgs, across the area. The AOI 10-1/10-4 LNAPL Area includes 11 monitoring wells with consistent accumulations of LNALPL and five additional wells with intermittent LNAPL accumulations. LNAPL samples collected from the AOI 10-1/10-4 LNAPL Area detected total arsenic, chromium, and lead concentrations exceeding the RCRA toxicity characteristic criteria at 20-FP7, 20-FP8, and/or 20-162; however, the LNAPL has not been submitted for TCLP analysis. PCBs have also been detected in LNAPL at concentrations up to 600 ppm.

1) *Are unacceptable dissolved phase, vapor phase, or direct contact exposures associated with the LNAPL under any use scenarios?*

   YES – The following potential risk/exposure concerns are associated with the AOI 10-1/10-4 LNAPL Area:

   - Groundwater/surface water interface (GSI):
     - Arsenic, barium, copper, selenium, silver, and cyanide were detected at concentrations that exceed GSI criteria in monitoring wells located in the vicinity of the AOI 10-1/10-4 LNAPL Area. Groundwater in this area infiltrates the Outfall 003 storm sewer that discharges to the Flint River.
     - Manganese was detected at concentrations exceeding GSI protection criteria in soil samples located south of the AOI 10-1/10-4 LNAPL Area.
     - LNAPL from the AOI 10-1/10-4 Area is infiltrating the Outfall 003 storm sewer. In 2013, bulkheads and plugs were installed along laterals of the Outfall 003 storm sewer to eliminate infiltration pathways along the laterals.
   - Direct Contact: Soil and LNAPL samples collected from the AOI 10-1/10-4 LNAPL Area detected PCBs at concentrations exceeding the soil nonresidential direct contact (NDC) criteria. The exceedances of NDC criteria are located from 4 to 10 feet below ground surface (bgs) in the soil samples and the shallowest LNAPL impacts are located approximately seven feet below ground surface which represents a potential concern for future construction or utility workers.
   - Particulate Soil Inhalation (Ambient Air) Concerns: Manganese was detected at concentrations exceeding the nonresidential particulate soil inhalation criteria at two sample locations south of the AOI 10-1/10-4 LNAPL Area. The exceedances are in shallow soils located beneath concrete/asphalt. Engineering and institutional controls will be implemented to control this risk/exposure scenario.
   - Potential Groundwater Volatilization to Indoor Air Concern at the Property Boundary: Groundwater data from two locations (RFI-10-03 and RFI-10-37) exceed applicable vapor intrusion screening levels. On Site concerns will be addressed by institutional controls. Additional evaluation will be completed for off Site receptors in accordance with the MDEQ's *Guidance Document for the Vapor Intrusion Pathway.* However, as the adjacent CSX property consists of rail road tracks, which are highly unlikely to be replaced by an occupiable structure in the foreseeable future, it is likely that institutional controls will also be recommended as the off Site remedy.
   - Potential Volatilization to Indoor Air Concerns for Future Structures: Theoretically, there is a potential unacceptable vapor phase exposure risk associated with future redevelopment scenarios; however, this will be addressed by the proposed institutional controls.

2) *Do feasible options exist to mitigate unacceptable risk through compositional change?*

   NO – The following is a general discussion regarding the feasibility of various compositional change remediation strategies for the AOI 10-1/10-4 Area:

   - Enhanced dissolution and recovery via surfactant or hot water flushing may be feasible; however, it is not a viable option based on the presence of PCBs in the LNAPL and the infiltration pathway to the Outfall 003

storm sewers. The use of surfactant would increase mobility and therefore, likely increase PCB-containing LNAPL infiltration into the storm sewer.

- Targeted in-situ soil mixing/land farming using biological additives to address the petroleum constituents may be technically feasible; however, it is not a viable option based on the presence of PCBs in the LNAPL and the infiltration pathway to the Outfall 003 storm sewers.
- LNAPL constituents have low volatility rendering remedial technologies that rely on vapor-phase partitioning infeasible on a technical basis.
- In situ thermal remediation may be technically feasible for the area; however, it is not a viable option based on the presence of PCBs in the LNAPL and nearby City sewers. In addition, it does not represent an economically feasible remedial alternative given the relatively large area that would need to be addressed in order to avoid the generation of dioxins.

3) *Is there a potential benefit to partial treatment/removal that outweighs costs?*

NO – Based on the current understanding of conceptual site model the GSI, direct contact, particulate soil inhalation and vapor phase risks can be effectively mitigated through targeted excavation, engineering and institutional controls. In addition, LNAPL recovery systems operated in this area for 13 years; therefore, partial and effective LNAPL removal has already been completed and a transition to institutional controls is now appropriate.

4) *Is LNAPL migrating or potentially migrating (i.e. mobile along the perimeter)?*

NO – While the LNAPL is mobile in the vicinity of the storm sewer, the AOI 10-1/10-4 LNAPL Area appears to be stable. This finding is supported by the following lines of evidence:

- Well Gauging Data: Sentinel wells located around the periphery of the AOI 10-1/10-4 LNAPL Area have remained free of LNAPL since monitoring began approximately 10 years ago.
- Age of LNAPL Release: The AOI 10-1/10-4 LNAPL Area was identified in 1991. Operations began in this portion of the Site in the 1950's and ceased in this portion of the Site ceased in 2010. LNAPL bodies typically stabilize within 2 to 5 years after a release has been stopped (ITRC, 2012).

5) *Is LNAPL mobile within the stable LNAPL perimeter?*

YES – LNAPL from the AOI 10-1/10-4 area is infiltrating the Outfall 003 storm sewer, which passes through the AOI 10-1/10-4 LNAPL Area.

6) *Is LNAPL readily recoverable?*

YES – Historic interim measures (IM) indicate that in the past LNAPL has been recoverable at AOI 10-1/10-4 using recovery wells, trenches and bailing (summarized below). However it is uncertain whether future LNAPL recovery is practical.

- A groundwater and LNAPL treatment system operated at AOI 10-1/10-4 from 1997 to 2010. The system recovered an unknown amount of LNAPL but operated at a rate of up to 20 gallons per minute (gpm).
- In 2003, a passive recovery trench was installed adjacent to the scrapyard yard to collect PCB-containing LNAPL from the AOI 10-1/10-4 LNAPL Area and create hydraulic control. The trench was approximately 240 feet long and LNAPL was removed from the trenches via 4-foot-diameter recovery wells, piped to the groundwater treatment system and treated. The total amount of LNAPL recovered by these trenches in unknown.
- During the Site-wide LNAPL monitoring program conducted from 2001 through 2005, a total of approximately 30 gallons of LNAPL was recovered during quarterly bailing events in the AOI 10-1/10-4 area.

In addition, transmissivity testing was completed by conducting baildown tests on two monitoring wells (20-FP7 and MW-10-03) in the AOI 10-1/10-4 LNAPL Area. Based on LNAPL baildown test results, LNAPL transmissivity quantified at monitoring wells 20-FP7 and MW-10-03 was 1.0 square feet per day (ft^2/day) and 0.3 ft^2/day, respectively. The LNAPL transmissivity at 20-FP7 was 1 ft^2/day, which is greater than the ITRC and MDEQ suggested threshold values indicating that LNAPL recovery is potentially feasible at this well. At MW-10-03 the LNAPL transmissivity was 0.3 ft^2/day, which is within the lower end of the ITRC suggested minimum threshold value and below the MDEQ value indicating that LNAPL recovery is not practicable at this well.

7) *Will potential benefit of LNAPL recovery outweigh costs?*

No – Compositional and saturation concerns can be addressed through targeted excavation and engineering and institutional controls. Targeted excavations are proposed to address PCB impacts (further discussed in **Attachment 3**) at the AOI 10-1/10-4 LNAPL Area. Engineering and institutional controls will be implemented to eliminate LNAPL infiltration to the Outfall 003 storm sewer, address the GSI pathway and mitigate potential risk associated with particulate inhalation concerns. Additional LNAPL removal will not materially change the risks associated with this LNAPL Area.

Attachment 2 Notes

Priority #5 - AOI 10-1/10-4 Hydraulic Oil Area

8) Are controls required?

YES – In addition to the Site-wide Institutional Controls discussed in the main report, the following controls will be necessary to limit potential for future exposure.

- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads, as shown on **Figure 5 in the main report**.
- Prohibit any excavation or other intrusive activity that could affect the integrity of the surface cover that is present (as shown on **Figure D3-3**) to prevent direct contact with contaminated material, except with using appropriate health and safety measures, during short-term construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the surface cover, that could affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original barrier within a reasonable timeframe. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the Natural Resources and Environmental Protection Act.
- Require that any intrusive activities (i.e., excavation, repair of foundation or subsurface utilities, short-term construction and landscaping projects) into the subsurface beneath the cap must be consistent with MIOSHA requirements, including the use of a Health and Safety Plan and a trained professional to evaluate the Site data prior to initiating activities. All relevant Site data must be made available for the preparation of the Health and Safety Plan. Data may be made available as part of the Due Care Plan, RFI, or other document(s).
- Notification to future property owners to the presence of PCBs, and
- Restrict the area shown on **Figure D3-3** to low occupancy based on the presence of PCBs.

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Attachment 3

761.61(c) Risk Based Cleanup and Disposal Request

Priority #5 – AOI 10-1/10-4 Hydraulic Oil LNAPL Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 3 – 761.61(c) Risk Based Cleanup and Disposal Request

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This attachment presents the information required to support a 761.71(c) determination for the area of interest (AOI) 10-1/10-4 light non-aqueous phase liquid (LNAPL) Area.

1. Area Background and History

The AOI 10-1/10-4 LNAPL Area is located at the Northend of the Site in the former Factory 10 area and is likely associated with historic releases associated with operations. LNAPL associated with the AOI 10-1/10-4 LNAPL Area has been identified in monitoring wells 20-162, 20-163R, 20-167, 20-168, 20-FP4R, 20-FP7, 20-FP8, MW-10-03, MW-10-12, TW-10-08-3, and TW-10-08-4.

2. Summary of SOPs and Investigation Results

AOI 10-1/10-4 has been previously investigated as part of the Site's RCRA Facility Investigation activities. The RFI Work Plan presents the standard operating procedures, field sampling procedures, quality assurance/quality control procedures, etc. used during the investigation. The results of the investigations (including laboratory analytical reports) were presented in the RFI Phase I and RFI Phase II reports.

3. Nature of Contamination

At AOI 10-1/10-4, samples of LNAPL, soil and groundwater have been analyzed for PCBs. Below is a brief summary of results.

- LNAPL samples collected from six monitoring wells (20-162, 20-FP7, 20-FP8, MW-10-03, TW-10-08-3, and TW-10-08-4) have been submitted for PCB analysis. PCBs were detected in three of the samples MW-10-03 (1.7 parts per million [ppm]), TW-10-08-3 (13 ppm) and TW-10-08-4 (40ppm) (**Figure D3-1**). In addition historic LNAPL sample collected form 20-170 contained concentrations of PCBs at 600 ppm and a historical oil sample collected from the former Factory 10 basement during demolition activities also detected PCBs at a concentration of 600 ppm.
- A total of 97 soil samples collected from the AOI 10-1/10-4 area were analyzed for PCBs. PCBs were detected in 38 soil samples, and in 11 of those samples PCBs concentrations were less than

1 ppm. Four soil samples collected from three locations detected PCBs at a concentration greater than 25 ppm. The maximum soil detection was 127 ppm. (**Figure D3-2**)

- Seven groundwater samples collected from wells in the AOI 10-1/10-4 area were analyzed for PCBs; however, PCBs were not detected.

4. Extent of Impacts

The PCB impacts at AOI 10-1/10-4 are associated with the LNAPL. **Figure D3-1** shows the approximate extent of the AOI 10-1 and 10-4 LNAPL areas. The extent of PCB impacts at each area is further discussed below.

- At the AOI 10-1 LNAPL Area three soil borings (SB-10-05 through SB-10-07) and two wells (MW-10-3 and TW-10-4-1) were completed to delineate the extent of LNAPL as well as PCB concentrations in soil and LNAPL. A total of 23 soil samples were collected from four locations and submitted for laboratory analysis of PCBs. PCBs were detected in three soil samples with a maximum concentration of 1.5 mg/kg.

  One LNAPL sample (MW-10-03) collected at AOI 10-1 detected PCBs (Aroclor 1242) at a concentration of 1.7 ppm. In addition, a sample collected of oil seeping into the former Factory 10 basement during demolition activities detected PCBs (Aroclor 1242) at a concentration of 600 ppm. The locations are presented on **Figure D3-1.**

- At the AOI 10-4 LNAPL Area, 11 wells (MW-10-01, TW-10-08-01 through -07, TW-10-08-11, and TW-10-08-12) and 12 soil borings (SB-10-2, SB-10-4, SB-10-08 through SB-10-11, SB-10-08-08 through SB-10-08-10, and SB-10-08-13 through SB-10-08-15) were completed to define the extent of LNAPL as well as the PCB impacts in LNAPL and soil in the vicinity of monitoring well 20-170. A total of 65 soil samples were collected and submitted for laboratory analysis of PCBs. PCBs were detected in 33 of the soil samples collected from the AOI 10-4 LNAPL Area at concentrations ranging from 0.3 to 127 ppm.

  Two LNAPL samples (TW-10-08-03, and TW-10-08-04) collected at AOI 10-4 detected PCBs (Aroclor 1254) at concentrations of 13 ppm and 40 ppm, respectively. In addition a historic LNAPL sample collected from 20-170 detected PCBs (Aroclor-1254) at a concentration of 600 ppm; however, LNAPL is no longer present at 20-170.

  To date, LNAPL has been only been detected in the two of the nine temporary wells, indicating that the volume of LNAPL impacts at the 20-170 area may be minimal. The locations are presented on **Figure D3-2.**

- Soil samples were also collected from four monitoring well locations (MW-10-12 through MW-10-15) installed to investigate the presence/absence of LNAPL adjacent to the Outfall 003 storm sewer main. A total of nine soil samples were collected from the monitoring wells. PCBs were detected in two of the soil samples at concentrations ranging from 0.5 to 0.72 ppm.

- Based on the LIF and soil boring log data, approximate depth impacts are approximately 8 to 14 ft bgs in the central portion of the LNAPL Area and 7 to 11 ft bgs in the south/southeastern portion of the LNAPL Area.

5. Risk-Based Procedure

In order to address the PCB impacts associated with monitoring well 20-170 a targeted excavation is proposed to be completed to remove impacts greater than 25 ppm. The PCB impacts at 20-170 have been delineated by soil borings and temporary wells, as shown on **Figure D3-2**; however, additional delineation may be completed to further refine the extents prior to excavation activities. The scope of work for additional delineation will be included in a remedy implementation work plan and/or basis of design documentation, as appropriate. The work plan will include the detailed scope for the excavation activities; however, a brief summary of the plan is provided below

- Complete investigation work necessary to refine the extents of the excavation.
- Prior to excavation, LNAPL will be removed from wells in the area of excavation, and disposed of at “as found” concentrations, to minimize accumulation during excavation.
- Complete excavation to the water table (that averages a depth of 10 feet bgs). It is planned that the excavation will be completed when the water table is at its lowest to maximize removal of impacted soils.
- LNAPL-impacted soils removed during remediation activities completed at AOI 10-1/10-4 will be characterized and disposed of using “as found” concentrations.

Following completion of the targeted excavation a portion of the AOI 10-1/10-4 Area will be restricted to low occupancy use. Additional deed restrictions placed on the AOI 10-1/10-4 LNAPL Area to protect future users from PCB impacts will include the Site-wide deed restrictions as noted in the main report and these AOI-specific deed restrictions:

- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads, as shown on **Figure 5 in the main report**.
- Prohibit any excavation or other intrusive activity that could affect the integrity of the surface cover

that is present (as shown on **Figure D3-3**) to prevent direct contact with contaminated material, except with using appropriate health and safety measures, during short-term construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the surface cover, that could affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original barrier within a reasonable timeframe. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the Natural Resources and Environmental Protection Act.

- Require that any intrusive activities (i.e., excavation, repair of foundation or subsurface utilities, short-term construction and landscaping projects) into the subsurface beneath the cap must be consistent with MIOSHA requirements, including the use of a Health and Safety Plan and a trained professional to evaluate the Site data prior to initiating activities. All relevant Site data must be made available for the preparation of the Health and Safety Plan. Data may be made available as part of the Due Care Plan, RFI, or other document(s).
- Notification to future property owners to the presence of PCBs, and
- Restrict the area shown on **Figure D3-3** to low occupancy based on the presence of PCBs.

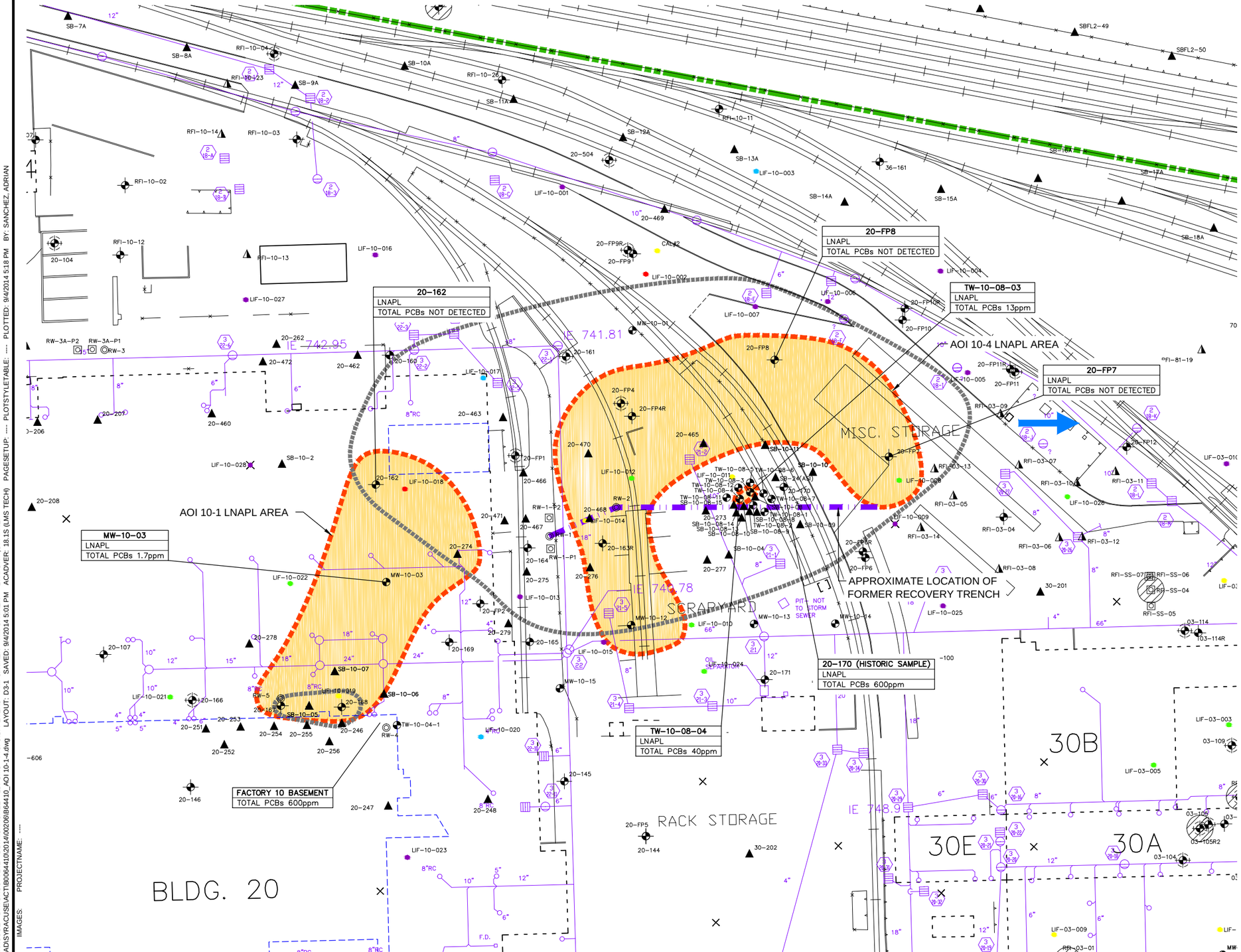
6. Evaluation of Alternatives

The following technologies were evaluated to address LNAPL at AOI 10-1/10-4:

- AOI 10-1/10-4 LNAPL constituents have low volatility rendering remedial technologies that rely on vapor-phase partitioning infeasible on a technical basis.
- Enhanced dissolution and recovery via surfactant or hot water flushing may be feasible; however, it is not a viable option based on the presence of PCBs in the LNAPL and the infiltration pathway to the Outfall 003 storm sewers. The use of surfactant would increase mobility and therefore, likely increase the PCB impacted LNAPL infiltration into the storm sewer.
- Targeted in-situ soil mixing/land farming using biological additives to address the petroleum constituents may be technically feasible; however, it is not a viable option based on the presence of PCBs in the LNAPL and the infiltration pathway to the Outfall 003 storm sewers.
- In situ thermal remediation may be technically feasible for the area; however, it is not a viable option based on the presence of PCBs in the LNAPL and nearby City sewers. In addition, it does not represent an economically feasible remedial alternative given the relatively large area that would need to be addressed in order to avoid the generation of dioxins.

ARCADIS

Figures



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- STORM SEWER LINE
- APPROXIMATE LOCATION OF RECOVERY TRENCH
- GENERAL GROUNDWATER FLOW DIRECTION

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200
- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 50' 100'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 10-1/10-4
PCB CONCENTRATIONS IN LNAPL

ARCADIS

FIGURE
D3-1

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*OFF=*REF*
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IMAGES: PROJECTNAME: ----
PLOTSTYLETABLE: ---- PLOTTED: 9/4/2014 5:18 PM BY: SANCHEZ, ADRIAN

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB0\B64410\2014\0020\B64410_AOI 10-1-4.dwg LAYOUT: D3-2 SAVED: 9/4/2014 5:01 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ----
IMAGES: PROJECTNAME: ----

20-465

21-2

SB-10-11

SB-10-08
6-8' = 42 ppm
8-10' = 47 ppm

SB-10-10

TW-10-08-5 TW-10-08-6

LIF-10-011

SB-24(ASI)

TW-10-08-3

TW-10-08-12

20-170

TW-10-08-4

10"

TW-10-08-11

TW-10-08-7

SB-10-08-15

SB-10-08

TW-10-08-1

20-273

SB-10-08-8

SB-10-08-14

TW-10-08-2

SB-10-09

SB-10-08-13

SB-10-08-9

SB-10-08-10

SB-10-04

3

TW-10-08-2
4-6' = 127 ppm

SB-10-08-9
6-8' = 39 ppm

3'

20-27

20-FP6R

20-FP6

E 740.78

SCRAPYARD

PIT- NOT TO STORM SEWER

MW-10-12

MW-10-13

MW-10-14

LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- STORM SEWER LINE
- PCB CONCENTRATIONS IN SOIL EXCEED NONRESIDENTIAL DIRECT CONTACT CRITERIA
- PCB CONCENTRATIONS IN SOIL ARE BELOW NONRESIDENTIAL DIRECT CONTACT CRITERIA

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5-10
- 10-100
- 100-200
- >200

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

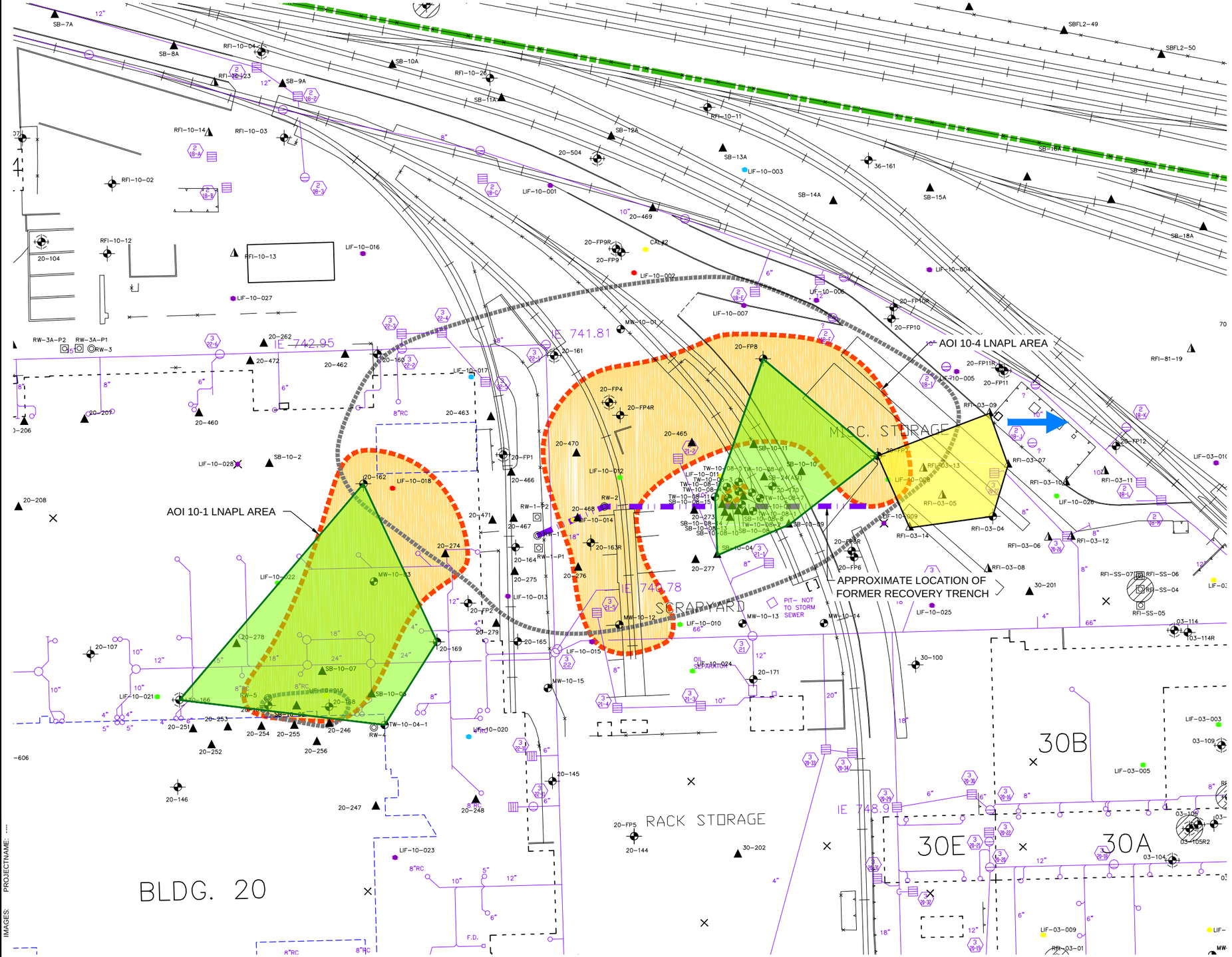
0 10' 20'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 10-4
PCB DETECTIONS
IN SOIL GREATER THAN 25ppm

ARCADIS

FIGURE
D3-2



NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 10-1/10-4
EXTENT OF SURFACE COVER AND LOW OCCUPANCY RESTRICTIONS

ARCADIS

FIGURE
D3-3

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIVE\B0064410\2014\0020\B64410_AOI 10-1-4.dwg LAYOUT: D3-3 SAVED: 9/4/2014 5:01 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 9/4/2014 5:19 PM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME: ----

Attachment 4

Remedy Recommendation

Priority #5 - AOI 10-1/10-4 Hydraulic Oil Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 4 – Recommended Remedy

This attachment presents the recommended remedies for the area of interest (AOI) 10-1/10-4 Hydraulic Oil Area (AOI 10-1/10-4 light non-aqueous phase liquid [LNAPL] Area).

1. Compositional and Saturation Concerns

The LNAPL Decision Tree Analysis presented in **Attachment 2** identified groundwater/surface water interface (GSI), direct contact, particulate soil inhalation, and potential volatilization to indoor air as compositional concerns for AOI 10-1/10-4 and mobility as a saturation concern. The PCB-impacted LNAPL from the AOI 10-1/10-4 area is infiltrating the Outfall 003 storm sewer, which is the basis for the direct contact, mobility, and GSI concerns. The particulate soil inhalation concern is due to the presence of manganese in shallow soils. The potential volatilization to indoor air concerns are due to the biodegradation of LNAPL generating methane that could result in indoor air concerns for future structures and trichloroethene detected at concentrations exceeding screening levels.

2. Remedy Recommendation Rationale

The remedies recommended to address the compositional and saturation concerns associated with the AOI 10-1/10-4 LNAPL Area include elimination of infiltration to the Outfall 003 storm sewer, targeted excavation, maintaining surface cover and institutional controls, which are discussed in detail in Section 3. The rationale for this selection is detailed below:

- Although historic interim measures (IMs) and LNAPL transmissivity data indicated that LNAPL recovery may be feasible; LNAPL recovery systems have already operated at this area for approximately 13 years. Partial and effective LNAPL removal has already been completed and a transition to groundwater monitoring and institutional controls is now appropriate to address the remaining LNAPL. Additional LNAPL removal will not materially change the risks associated with this area so there is no cost benefit to pursuing additional LNAPL removal.

- The GSI and mobility concerns associated with the PCB-impacted LNAPL at the AOI 10-1/10-4 area will be addressed by eliminating LNAPL infiltration into the Outfall 003 storm sewer. This remedy will also address the groundwater GSI concerns.

- The direct contact concerns associated with the PCBs will be addressed by completing a targeted excavation, as well as implementing engineering and institutional controls, as necessary.

- The particulate soil inhalation risk can be effectively mitigated through engineering and institutional controls as the impacts are located beneath existing surface cover (asphalt/concrete).

- Based on the current understanding of risk conditions, the potential volatilization to indoor air risk for future structures can be effectively mitigated through institutional controls.

- Although additional investigations will be completed, based on the current understanding of risk conditions the potential groundwater volatilization to indoor air (on and off Site) can be effectively mitigated through the Site-wide institutional controls.

3. AOI 10-1/10-4 Remedies

This section summarizes the completed and proposed remedies to address the impacts at AOI 10-1/10-4.

3.1 Completed Interim Measures

A groundwater and LNAPL collection and treatment system and a recovery trench were previously operated to collect product and groundwater for approximately 13 years until they were no longer effectively removing product. An LNAPL bailing program also operated for several years removing the product. The partial and effective removal of product has been completed in this area and is considered a component of the remedy.

3.2 Additional Remedy Recommendations

The remedies recommended to address the compositional and saturation concerns associated with the AOI 10-1/10-4 LNAPL Area are the elimination of infiltration to the Outfall 003 storm sewer, targeted excavation, and engineering and institutional controls. These combined remedies will eliminate the infiltration pathway in the short term and prevent future worker exposure to LNAPL impacts in the long term.

3.2.1 Outfall 003 Pathway Elimination

In order to address the risks associated with the LNAPL infiltration into the Outfall 003 storm sewer, the pathway will be eliminated. This option may include re-routing, sealing, lining, or replacing a section of the sewer and installing collars in the backfill to eliminate the potential of migration. A feasibility study for this option is currently underway and the final cost for this option is being evaluated.

3.2.2 Targeted Excavation

In order to address the risks associated with the LNAPL containing PCBs at concentrations greater than 25 ppm, targeted excavations of LNAPL impacted soils is recommended. As discussed in **Attachment 3**, the targeted excavation is proposed to address the PCB impacts at 20-170, as shown on **Figure D3-2**. Additional delineation will be completed to further refine the extents prior to excavation activities.

As part of a self-implementing cleanup under 40 CFR Part 761.61(c), soils exceeding 25 ppm of PCBs will be excavated and disposed of properly using "as found" concentrations. The excavations will take place when the water table is at its lowest to maximize removal of impacted soils.

3.2.3 Maintain Surface Cover

The remedy recommended to address particulate soil inhalation impacts in shallow soil beneath the existing asphalt/concrete is to maintain the surface cover over the impacted area. The area requiring surface cover is presented on **Figure D3-3**. The surface cover will be inspected and maintained to provide protection from future exposure.

3.2.4 Institutional Controls

The following AOI-specific institutional controls, in addition to the Site-wide controls noted in the Report, will be necessary to limit potential for future exposure:

- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads as shown on **Figure 5 of the main report**.
- Prohibit any excavation or other intrusive activity that could affect the integrity of the surface cover that is present (as shown on **Figure D3-3**) to prevent direct contact with contaminated material, except with using appropriate health and safety measures, during short-term construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the surface cover, that could affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original

barrier within a reasonable timeframe. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the Natural Resources and Environmental Protection Act.

- Require that any intrusive activities (i.e., excavation, repair of foundation or subsurface utilities, short-term construction and landscaping projects) into the subsurface beneath the cap must be consistent with MIOSHA requirements, including the use of a Health and Safety Plan and a trained professional to evaluate the Site data prior to initiating activities. All relevant Site data must be made available for the preparation of the Health and Safety Plan. Data may be made available as part of the Due Care Plan, RFI, or other document(s).
- Notification to future property owners to the presence of PCBs, and
- Restrict the area shown on **Figure D3-3** to low occupancy based on the presence of PCBs.

Appendix D - Addendum No. 1

February 15, 2016

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MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER

From:
Micki M. Maki

Date:
February 15, 2016

ARCADIS Project No.:
B0064410.2016

Subject:
Remedy Recommendation Report
Appendix D - AOI 10-1/10-4 Hydraulic Oil Area - Addendum No.1
Summary of Additional Investigations
RACER Buick City Site, Flint, Michigan

Introduction

This Addendum No. 1 to Remedy Recommendation Report Appendix D presents a summary of the investigation data collected at the AOI 10-1/10-4 Hydraulic Oil Area from March 19, 2014 through December 31, 2015 at the Buick City Site (Site) located in Flint, Michigan.

Summary of Investigation Activities

Additional investigation activities were completed at AOI 10-1/10-4 to refine the extent of polychlorinated biphenyl (PCB) impacts observed at monitoring well 20-170 and to delineate LNAPL in the vicinity of temporary well TW-10-08-02 (**Figure D-A1-1**).

20-170 Area

At the 20-170 Area four step-out soil borings (SB-10-16/TW-10-16, SB-10/17/TW-10-17, SB-10-18, and SB-10-19) were completed to delineate PCB impacted soils. As light non-aqueous phase liquid (LNAPL) was identified at the two of the borings (SB-10-16 and SB-10-17), the locations were completed as temporary

wells (**Figure D-A1-1**). The borings and temporary wells were completed to depth of 15 feet below ground surface (ft bgs). Soil samples were collected from each location from 4 to 6, 6 to 8, and 8 to 10 ft bgs. An additional deeper sample interval was also collected at SB-10-16/TW-10-16, SB-10-18 and SB-10-19 to vertically delineate impacts. All soil samples were submitted to the laboratory for analysis of PCBs

TW-10-08-2 Area

At the TW-10-08-2 Area four temporary wells (TW-10-08-16, TW-10-08-17, TW-10-20 and TW-10-21) were installed to delineate LNAPL identified at TW-10-08-2 (**Figure D-A1-1**). The temporary wells were completed to a depth of approximately 15 feet bgs. Soil samples were collected from TW-10-08-16, TW-10-08-17, and TW-10-21 from 4 to 6, 6 to 8, and 8 to 10 ft bgs and submitted to the laboratory for PCB analysis.

In addition, LNAPL samples were collected from TW-10-08-1, TW-10-08-2, and TW-10-08-17 and submitted to the laboratory for PCB analysis.

Summary of Data Evaluation

20-170 Area

At the 20-170 Area a total of 15 soil samples were submitted for PCB analysis. PCBs were detected in one sample collected at SB-10-17 (8 to 10 ft bgs) at a concentration of 0.7 milligrams per kilogram (mg/kg) and two samples collected at SB-10-19 at concentrations of 19 mg/kg (6 to 8 ft bgs) and 4.3 mg/kg (8 to 10 ft bgs) (**Table D-A1-1**).

TW-10-08-2 Area

At the TW-10-08-2 Area a total of nine soil samples were submitted for PCB analysis. PCBs were detected in one sample collected from TW-10-08-16 (4 to 6 ft bgs) at a concentration of 13 mg/kg, one sample collected from TW-10-08-17 (6 to 8 ft bgs) at a concentration of 8 mg/kg, and two samples collected from TW-10-21 at concentrations of 21 mg/kg (4 to 6 ft bgs) and 1 mg/kg (6 to 8 ft bgs) (**Table D-A1-1**).

In addition, temporary wells TW-10-08-16, TW-10-08-17, TW-10-16, TW-10-17, TW-10-20, and TW-10-21 were gauged several times in 2014 and 2015. LNAPL was only detected at a thickness greater than 0.1 inches at TW-10-08-17. A sample of the LNAPL at TW-10-08-17 was collected along with samples from previously existing wells TW-10-08-1 and TW-10-08-2 and submitted for PCB analysis. PCBS were detected

in the LNAPL samples at concentrations of 272 mg/kg at TW-10-08-1, 1,413 mg/kg at TW-10-08-2, and192 mg/kg at TW-10-08-17 (**Table D-A1-2**).

Table D-A1-1 **Summary of Additional Soil Investigation**
Remedy Recommendation Report Appendix D – AOI 10/10-4 Hydraulic Oil Area - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: / Sample Depth(ft): / Date Collected:	Units	CSAT	GSIP	NDC	NPSIC	NSVIA	NVSICI	SB-10-16 4 - 6 10/29/14	SB-10-16 6 - 8 10/30/14	SB-10-16 8 - 10 10/30/14	SB-10-16 11 - 13 10/30/14	SB-10-17 4 - 6 10/30/14	SB-10-17 6 - 8 10/30/14	SB-10-17 8 - 10 10/30/14
PCB														
Aroclor-1016 (PCB-1016)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.7
Aroclor-1260 (PCB-1260)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Miscellaneous														
Total solids	mg/kg	- -	- -	- -	- -	- -	- -	870,000	880,000	840,000	810,000	870,000	860,000	820,000

Location ID: / Sample Depth(ft): / Date Collected:	Units	CSAT	GSIP	NDC	NPSIC	NSVIA	NVSICI	SB-10-18 4 - 6 10/30/14	SB-10-18 6 - 8 10/30/14	SB-10-18 8 - 10 10/30/14	SB-10-18 10 - 11 10/30/14	SB-10-19 4 - 6 10/31/14	SB-10-19 6 - 8 10/31/14	SB-10-19 8 - 10 10/31/14
PCB														
Aroclor-1016 (PCB-1016)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	3 UY	0.6 UY
Aroclor-1221 (PCB-1221)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	3 UY	0.6 UY
Aroclor-1232 (PCB-1232)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	3 UY	0.6 UY
Aroclor-1242 (PCB-1242)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	3 UY	0.6 UY
Aroclor-1248 (PCB-1248)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	3 UY	0.6 UY
Aroclor-1254 (PCB-1254)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	**19 Y**	4.3 Y
Aroclor-1260 (PCB-1260)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	3 UY	0.6 UY
Miscellaneous														
Total solids	mg/kg	- -	- -	- -	- -	- -	- -	780,000	810,000 [790,000	860,000	820,000	850,000	850,000	830,000

Table D-A1-1 **Summary of Additional Soil Investigation**
Remedy Recommendation Report Appendix D – AOI 10/10-4 Hydraulic Oil Area - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GSIP	NDC	NPSIC	NSVIA	NVSICI	SB-10-19 18 - 20 10/31/14	TW-10-08-16 4 - 6 06/11/15	TW-10-08-16 6 - 8 06/11/15	TW-10-08-16 8 - 10 06/11/15	TW-10-08-17 4 - 6 06/11/15	TW-10-08-17 6 - 8 06/11/15	TW-10-08-17 8 - 10 06/11/15
PCB														
Aroclor-1016 (PCB-1016)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	1 UY	0.33 U	0.33 U	0.33 U	1 UY	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	1 UY	0.33 U	0.33 U	0.33 U	1 UY	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	1 UY	0.33 U	0.33 U	0.33 U	1 UY	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	1 UY	0.33 U	0.33 U	0.33 U	1 UY	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	1 UY	0.33 U	0.33 U	0.33 U	1 UY	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	13 Y	0.33 U	0.33 U	0.33 U	8 Y	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	1 UY	0.33 U	0.33 U	0.33 U	1 UY	0.33 U
Miscellaneous														
Total solids	mg/kg	- -	- -	- -	- -	- -	- -	800,000	790,000	800,000	860,000	910,000	650,000	800,000

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GSIP	NDC	NPSIC	NSVIA	NVSICI	TW-10-21 4 - 6 10/29/14	TW-10-21 6 - 8 10/29/14	TW-10-21 8 - 10 10/29/14
PCB										
Aroclor-1016 (PCB-1016)	mg/kg	- -	- -	16	- -	- -	- -	3 UY	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	- -	- -	16	- -	- -	- -	3 UY	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	- -	- -	16	- -	- -	- -	3 UY	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	- -	- -	16	- -	- -	- -	3 UY	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	- -	- -	16	- -	- -	- -	3 UY	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	- -	- -	16	- -	- -	- -	**21 Y**	1	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	- -	- -	16	- -	- -	- -	3 UY	0.33 U	0.33 U
Miscellaneous										
Total solids	mg/kg	- -	- -	- -	- -	- -	- -	830,000	810,000	860,000

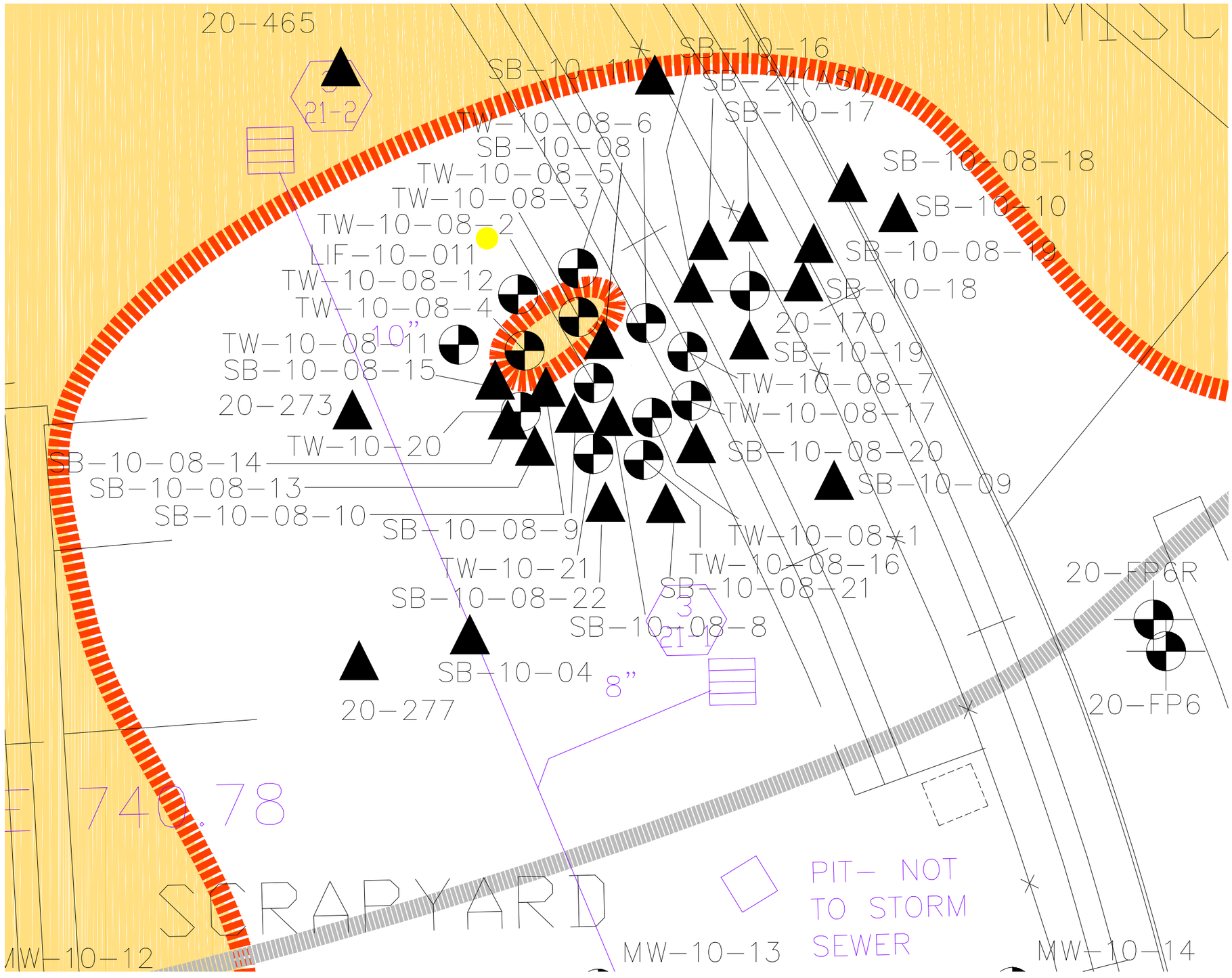
Table D-A1-1 **Summary of Additional Soil Investigation**
Remedy Recommendation Report Appendix D – AOI 10/10-4 Hydraulic Oil Area - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Notes:
mg/kg - milligram per kilogram
ft - feet
CSAT - Soil Saturation Concentration Screening Level
GSIP - Groundwater Surface Water Interface Protection Criteria
NDC - Nonresidential Direct Contact Criteria
NPSIC - Nonresidential Particulate Soil Inhalation Criteria
NSVIA - Nonresidential Soil Volatilization to Indoor Air Inhalation Criteria
NVSICI - Nonresidential Infinite Source Volatile Soil Inhalation Criteria
U – not detected above the reporting limit
Y - Elevated reporting limit due to high target concentration
Shaded and bolded results exceed one or more criteria.

Table D-A1-2 **Summary of Additional LNAPL Investigation**
Remedy Recommendation Report Appendix D – AOI 10-1/10-4 LNAPL Area - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	TW-10-08-1 03/06/15	TW-10-08-2 12/08/14	TW-10-08-17 12/28/15
PCB				
Aroclor-1016 (PCB-1016)	mg/kg	<33 Y	<333 Y	<33 Y
Aroclor-1221 (PCB-1221)	mg/kg	<33 Y	<333 Y	<33 Y
Aroclor-1232 (PCB-1232)	mg/kg	<33 Y	<333 Y	<33 Y
Aroclor-1242 (PCB-1242)	mg/kg	<33 Y	<333 Y	<33 Y
Aroclor-1248 (PCB-1248)	mg/kg	<33 Y	<333 Y	<33 Y
Aroclor-1254 (PCB-1254)	mg/kg	272 Y	1,413 Y	192 Y
Aroclor-1260 (PCB-1260)	mg/kg	<33 Y	<333 Y	<33 Y

Notes:
mg/kg - milligram per kilogram
Y - Elevated reporting limit due to high target concentration



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- STORM SEWER LINE

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 02/15/2016.

0 10' 20'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 10-4
PCB DELINEATION

ARCADIS Design & Consultancy for natural and built assets

FIGURE
D-A1-1

CITY: SYRACUSE DIV/GROUP: ENV DB: A.SANCHEZ LD: ALS/GMS PIC: C.S.PETERS PM: C.KIKER TM: C.KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB0064410\2016\0020\764410_AOI10-1-4.dwg LAYOUT: DA1-1 SAVED: 2/11/2016 12:31 PM ACADVER: 19.1S (LMS TECH) PAGESETUP: ----
IMAGES: PROJECTNAME: ----
PLOTTED: 2/11/2016 12:31 PM BY: SANCHEZ, ADRIAN
PLOTSTYLETABLE: ----

Appendix E

AOI 81-2 Cutting Oil Area Remedy Recommendation Memo

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MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER
Chris Peters, ARCADIS
Steve Gaito, ARCADIS

From:
Micki M. Maki
Victoria Stacey

Date:
August 29, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
Priority #6 - AOI 81-2 Cutting Oil LNAPL Area
Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

As part of the light non-aqueous phase liquid (LNAPL) remedy evaluation process the Site's 17 LNAPL areas were prioritized based on risk. The Area of Interest (AOI) 81-2 Cutting Oil LNAPL Area (AOI 81-2 LNAPL Area) is ranked as Priority #6 with a total potential risk score of 10 (**Table 5 of the main report**). A conceptual site model cross-section is attached (**Figure E-1**) which provides an overview of the AOI 81-2 LNAPL Area impacts and interim measures (IMs).

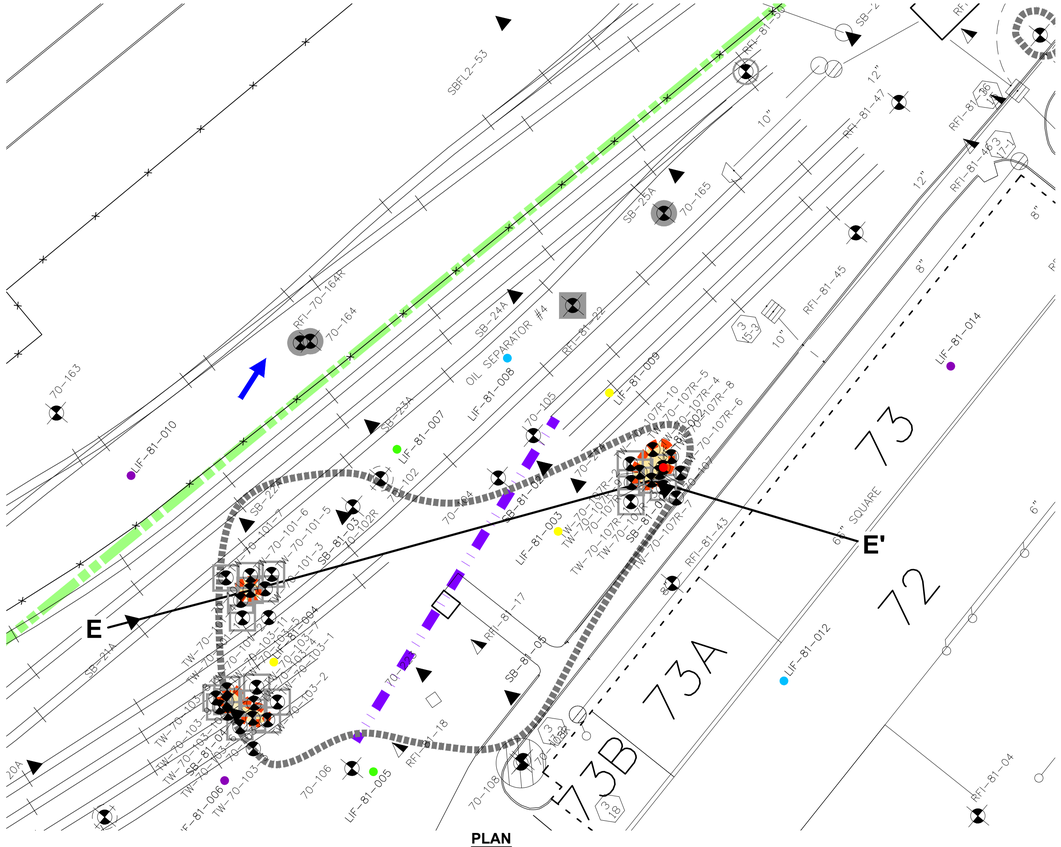
Historical IMs completed at the AOI 81-2 LNAPL Area include a recovery trench and an LNAPL bailing program. The partial and effective removal of product completed in this area is considered a component of the remedy.

The compositional and saturation concerns identified for the AOI 81-2 LNAPL Area were evaluated in the LNAPL decision tree (**Attachment 2**) and are summarized below:

- Theoretically, there is a potential unacceptable vapor phase exposure risk associated with methane for future redevelopment scenarios due to the biodegradation of LNAPL generating methane; however, this will be addressed by the proposed institutional controls.

- PCBs were detected in LNAPL samples collected from the AOI 81-2 LNAPL Area at concentrations ranging from 70 to 183 parts per million (ppm), which exceeds the Michigan Department of Environmental Quality's nonresidential direct contact (NDC) criteria for soils.
- No feasible options exist to mitigate unacceptable risk through compositional change.
- The LNAPL is not migrating and not infiltrating the Outfall 003 storm sewer.
- PCBs were detected in soil delineation samples collected from the AOI 81-2 LNAPL Area at concentrations ranging from 0.3 to 11 parts per million (ppm). PCB are detected in surface soils at concentrations between 1 ppm and 5 ppm in the vicinity of 70-101, 70-103, RFI-81-22, SB-81-02, and SB-81-04.
- LNAPL transmissivity quantified at monitoring well 70-107R was 0.2 square feet per day (ft^2/day), which is at the lower end of the minimum range suggested by ITRC and below the MDEQ draft standard threshold value, indicating that LNAPL recovery is not likely practical.
- An LNAPL recovery system consisting of a recovery trench and well operated in this area for approximately 17 years; therefore, partial and effective LNAPL removal has already been completed and a transition to institutional controls is now appropriate.

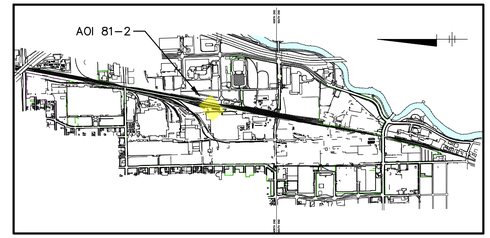
Based on the current understanding of conceptual site model, risks associated with direct contact and potential volatilization concerns can be effectively mitigated through targeted excavation and institutional controls.



PLAN

0 40' 80'

GRAPHIC SCALE



SITE MAP

0 2000' 4000'

SCALE IN FEET

AOI 81-2 CUTTING OIL AREA

KEY LNAPL COMPOSITION AND SATURATION CONCERNS

1) PCB DETECTIONS IN LNAPL RANGE FROM 70 TO 183 PPM, WHICH EXCEED THE SOIL NON-RESIDENTAL DIRECT CONTACT CRITERIA OF 16 PPM
2) POTENTIAL VOLATILIZATION TO INDOOR AIR CONCERN FOR FUTURE STRUCTURES
3) TRANSMISSIVITY BELOW MDEQ AND ITRC VALUES

COMPLETED INTERIM MEASURES AND RECOMMENDED REMEDIES

R-1) PASSIVE RECOVERY TRENCH ~17 YEARS OF LNAPL REMOVAL (IM COMPLETED)

R-2) TARGETED EXCAVATION

R-3) INSTITUTIONAL CONTROLS

NOTES:

1. BASE MAP INFORMATION FROM SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.
2. BASED ON INFORMATION AVAILABLE AS OF 03.19.2014.

RACER TRUST
BUICK CITY, FLINT, MICHIGAN

AOI 81-2
CONCEPTUAL SITE MODEL
CROSS SECTION E-E'

ARCADIS

FIGURE
E-1

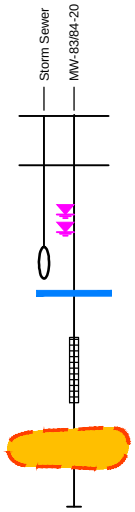
CITY:SYRACUSE DIV/GROUP:ENV DB:A.SANCHEZ LD:AS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\006441\02014\00206\Xsections\64410V01.DWG LAYOUT: E-1 SAVED: 9/3/2014 5:22 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: BBL-FULL.CTB PLOTTED: 9/5/2014 9:15 AM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME: ----

LEGEND

- PROPERTY BOUNDARY
- HISTORICAL LNAPL EXTENT
- CURRENT LNAPL EXTENT
- STORM SEWER
- ABANDONED STORM SEWER LATERAL
- APPROXIMATE LOCATION OF RECOVERY TRENCH
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- A1 — A1' LINE OF SECTION
- RFI MONITORING WELL LOCATION
- MONITORING WELL LOCATION
- RECOVERY WELL (NAPL) LOCATION
- PIEZOMETER LOCATION
- SOIL BORING LOCATION
- DECOMMISSIONED WELL LOCATION
- EVIDENCE OF PRODUCT OBSERVED IN SOIL

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

- <5
- 5–10
- 10–100
- 100–200
- >200
- HAND AUGER REFUSAL (TOP 5')
- GROUNDWATER SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- GROUNDWATER SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- SOIL SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES DO NOT EXCEED APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES EXCEED ONE OR MORE APPLICABLE CRITERIA



- WELL/BORING ID
- EXISTING GRADE
- LITHOLOGICAL CONTACT (DASHED WHERE INFERRED)
- NAPL LEVEL (HISTORIC HIGH AND LOW LEVELS)
- WATER TABLE
- WELL SCREEN
- APPROXIMATE EXTENT OF LNAPL
- WELL/BORING BOTTOM
- ASPHALT
- CONCRETE
- CLAY
- FILL
- GRAVEL
- INTERBEDDED SAND AND CLAY
- INTERBEDDED SANDS AND SILTS
- INTERBEDDED SILT AND CLAY
- SAND
- SILT
- SILTY SAND

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

CROSS SECTION LEGEND

ARCADIS

FIGURE
E-2

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB0064410\2014\00206\Xsections\64410V01.DWG LAYOUT: 1A SAVED: 7/11/2014 11:58 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: BBL-FULL.CTB PLOTTED: 7/11/2014 1:56 PM BY: SANCHEZ, ADRIAN
XREFS: IMAGES: PROJECTNAME: ---
Xr64410X3Bsp
Xr64410XDrainage
Xr64410X01
Xr64410XLIFsp2
Xr64410X01
Xr64410XAOI
Xr64410XLNAPL

Attachment 1

LNAPL Conceptual Site Model

Priority #6 - AOI 81-2 Cutting Oil LNAPL Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 1 - Conceptual Site Model

This attachment presents a conceptual site model for the area of interest (AOI) 81-2 Cutting Oil light non-aqueous phase liquid (LNAPL) Area (AOI 81-2 LNAPL Area). AOI 81-2 is located at the Buick City Site (Site) located in Flint, Michigan (**Figure E1-1**).

1. Background

The AOI 81-2 LNAPL Area is located east of the former Factory 81 in the eastern central portion of the Northend of the Site (**Figure E1-2**). Historically, the former Factory 81 Area was primarily used as a gray iron foundry prior to 1981. From 1981 to 2010, the area was used for welding, machining, and assembly of torque converters. The AOI 81-2 LNAPL Area is located east of the former Factory 81 - Buildings 70 and 73, which were historically used for storage of scrap materials (oil-saturated foundry sand and scrap metal). Historic operations in the northern portion of former Building 70 included the production of sand cores for foundry molds that included the use of gas/oil-fired core ovens and various core making methods. One of the core making methods used “hot boxes” to convey hot sand. According to Site personnel, from the 1960s through approximately 1972, polychlorinated biphenyl (PCB) containing hydraulic fluids were used within the “hot box” hydraulic systems. The presence of AOI 81-2 LNAPL Area is presumably due to historical releases associated with operations in this area.

Investigation data previously presented in Site reports are not re-presented in this memo. However, pertinent AOI 81-2 investigation data that has not previously been presented in a Site report is attached to this memo.

2. AOI 81-2 Site Setting and Data Summary

2.1 Former Interim Measures

2.1.1. LNAPL Monitoring and Bailing Program (2001)

From April to July 2001, three monitoring wells (70-101, 70-103, and 70-108) located in AOI 81-2 were monitored as part of a weekly LNAPL bailing program. A total of six gallons of LNAPL were removed from the three monitoring wells during the weekly program.

2.1.2. LNAPL Monitoring and Bailing Program (2003 - 2005)

During the 2003 to 2005 Site-wide LNAPL monitoring and bailing program LNAPL was recovered from four monitoring wells (70-101, 70-103, 70-107R, and 70-108) at AOI 81-2. A total of approximately 5.32 gallons of LNAPL was recovered during the quarterly bailing events.

2.1.3. Passive Recovery Trench

LNAPL was identified at the northeast corner of Factory 81 during the 1995 Fenceline Investigation. In 1996 a LNAPL recovery trench was installed at AOI 81-2. This recovery trench was approximately 9 feet deep, 3 feet wide, 200 feet long, and backfilled with gravel, with perforated pipe laterals. LNAPL was recovered from the trench via a 4-foot-diameter recovery well installed near the midpoint of the recovery trench. An automated belt-skimming device in the recovery well collected LNAPL from the recovery trench and transferred it to a temporary storage tank. The total amount of LNAPL recovered by this trench is unknown. By 2010, the system became ineffective in removing significant quantities of LNAPL due to the lack of recoverable LNAPL within the capture zone, and operation of the system was discontinued.

3. AOI 81-2 Site Setting and Data Summary

This section provides a summary of the geology, hydrogeology, analytical data, and LNAPL characteristics and extent of impacts for the AOI 81-2 LNAPL Area.

Figure E1-2 presents the locations of the existing and abandoned monitoring wells and soil borings in the AOI 81-2 Area.

3.1. AOI 81-2 Geology and Hydrogeology

- *Geology:* The soils at AOI 81-2 consist of primarily fine to medium sand to silty sands to a depth of 12.5 feet bgs that are underlain by silty clays/clay. The boring logs also indicated evidence of LNAPL impacts from as shallow as 3 feet bgs and as deep as 9 feet bgs, across the area.

- *Groundwater/LNAPL Levels:* Twelve monitoring wells (70-101, 70-102, 70-103, 70-104, 70-105, 70-106, 70-107, 70-107R, 70-108R, 70165, RFI-81-43, and RFI-81-45) at AOI 81-2 are gauged to monitor the extent of the LNAPL. Depth to groundwater (or LNAPL, where present) has varied greatly; it has been measured as shallow as 2.82 feet bgs, as deep as 12.65 feet bgs, and averages around 5 feet bgs. Historically, LNAPL has been gauged in five monitoring wells (70-101, 70-102R, 70-103, 70-107R, 70-108) and the recovery well associated with the recovery trench. However, following 17 years of operation of the passive recovery trench, LNAPL has only been detected in 70-101, 70-103 and 70-107R.

  The greatest thickness of LNAPL measured at the AOI 81-2 LNAPL Area was 7.95 feet at 70-107R in 2004. Most recently, in June 2013, product thicknesses ranged from 0.03 to 2.33 feet in the AOI 81-2 LNAPL Area monitoring wells. The March and June 2013 groundwater level data are presented in **Appendix X.**

  Based on historic fluid level gauging data, groundwater flow in this portion of the Site is generally to the south-southeast.

3.2. Groundwater and Soil Analytical Data

Analytical data were compared to applicable Michigan Part 201 non-residential criteria. Groundwater surface water interface pathway was determined to be not applicable at the AOI 81-2 LNAPL Area as the storm sewer is upgradient.

3.2.1. Groundwater Analytical Data

Groundwater concentrations in the AOI 81-2 LNAPL Area do not exceed applicable non-residential criteria.

3.2.2. Soil VOC, SVOC, and Metals Analytical Data

Soil samples collected from borings in the AOI 81-2 LNAPL Area near or within the plume do not exceed applicable non-residential criteria. Outside of the AOI 81-2 LNAPL Area there are exceedances of non-residential direct contact criteria and non-residential soil volatilization criteria, which were previously addressed in the *2010 Corrective Measure Proposal Addendum #2.*

3.2.3. Soil PCB Analytical Data

As part of PCB investigation activities completed in 2013 and 2014, five soil borings (SB-81-01 through SB-81-05) were installed adjacent to monitoring wells 70-107R, 70-105, 70-102,

70-103, and 70-108, respectively, to vertically characterize PCB impacts to soils at the AOI 81-2 LNAPL Area. Five soil samples were collected from each boring from 0 to 11 feet bgs and submitted for PCB analysis. PCBs were not detected in the soil samples collected from borings SB-81-01, SB-81-03, and SB-81-05. At SB-81-02, PCBs were detected at the following concentrations: 4 parts per million (ppm) from 0 to 2 ft bgs; 5 ppm from 3 to 5 ft bgs; and 3 ppm from 5 to 7 ft bgs. At SB-81-04, PCBs were detected at the following concentrations: 3 ppm from 0 to 2 ft bgs; 10 ppm from 3 to 5 ft bgs; 4 ppm from 5 to 7 ft bgs; and 3 ppm from 7 to 9 ft bgs.

To further delineate the concentrations of PCBs associated with the LNAPL at monitoring wells 70-101, 70-103, and 70-107R, twenty-eight (28) temporary wells (TW-70-101-1 through TW-70-101-7, TW-70-103-1 through TW-70-103-11, and TW-70-107R-1 through TW-70-107R-10) were installed. At each temporary well location, three soil samples were collected and submitted for PCB analysis to vertically profile the PCB impacts in soil. The locations of the temporary wells are presented on **Figure E1-2**. A total of 86 soil samples were collected from the temporary wells. PCBs were detected in 35 of the soil samples at concentrations ranging from 0.3 to 11 ppm.

The analytical results are presented in **Appendix X**.

3.2.4. GSI Evaluation

The AOI 81-2 LNAPL Area is located within the Outfall 003 storm sewer drainage basin. Based upon the available information, LNAPL is not infiltrating the storm sewer in the vicinity of this AOI, but groundwater has the potential to infiltrate the storm sewer. As further discussed in **Appendix BB** metals in the storm sewers at the Site are being investigated as part of the NPDES Plus Monitoring Program (NPMP).

3.2.5. Vapor Intrusion

Due to the presence of shallow groundwater and LNAPL (approximately 5 feet below ground surface) at the AOI 81-2 LNAPL Area, groundwater data were also compared to the applicable Non-Residential Screening Values for the Vapor Intrusion Pathway presented in the *Michigan Department of Environmental Quality (MDEQ) Guidance Document for the Vapor Intrusion Pathway* (further discussed in Section 3.4 of the Report). Groundwater concentrations do not exceed applicable screening levels.

As there are no structures at the Site the MDEQ Part 201 criteria are appropriate for

comparison of soil data. Soil data did not exceed applicable screening levels.

3.3. LNAPL Characteristics

- *LNAPL Analytical Data:* LNAPL present at AOI 81-2 consists primarily of cutting oil. Additional analysis indicated that:

  - The LNAPL has a viscosity of 46 centipoise (cp), interfacial tension of 5.6 dynes/centimeter (cm), and a specific gravity of 0.91.

  - The LNAPL contains concentrations of arsenic that exceed TCLP criteria; however, TCLP analysis has not been conducted.

  - PCBs have been detected in six LNAPL samples at concentrations greater than the Toxic Substance Control Act (TSCA) level of 50 ppm and nonresidential direct contact criterion (NDC) of 16 ppm. PCBs were detected at monitoring well 70-101 (70 ppm), 70-105 (110 ppm), 70-107R (100 ppm), TW-70-103-05 (83 ppm) TW-70-107R-02 (90 ppm), and TW-70-107R-04 (183 ppm).

  For reference, the viscosity (at 100 degrees Fahrenheit) of olive oil is 43.2 cp and honey is 73.6 cp (Ingersoll-Rand, 1981). The recently collected LNAPL analytical data are presented in **Appendix X**.

- *LIF Data:* Thirteen LIF borings were completed in the AOI 81-2 LNAPL Area. The LIF waveform signatures observed at AOI 81-2 are consistent with the known LNAPL type, cutting oil. The vertical range of LIF impact (greater than 5%RE) at AOI 81-2 is typically 5 to 9 feet bgs. There is one instance where the impact extends to a depth of 11 feet bgs. **Figure E1-2** presents the results of the LIF investigation and the extent of impacts associated with the AOI 81-2 LNAPL Area.

- *Transmissivity:* Transmissivity testing was completed at the AOI 81-2 LNAPL Area in April 2013. Based on LNAPL baildown test results at 70-107R, LNAPL transmissivity was quantified as 0.2 square feet per day (ft^2/day), which is at the lower end of the minimum range suggested by ITRC and below the MDEQ standard threshold value.

- *Natural Source Zone Depletion (NSZD):* NSZD was completed at the AOI 81-2 LNAPL Area to establish ongoing natural attenuation rates of LNAPL as a baseline for comparison to active LNAPL recovery technologies. Two carbon traps were installed at the AOI 81-2 LNAPL Area and submitted to the laboratory for analysis. The results show that LNAPL in the western section of the AOI 81-2 LNAPL Area is being depleted at a rate of 3,448 gallons per acre per year and in the

eastern section of the AOI 81-2 LNAPL Area at a rate of 176 gallons per acre per year.

3.4. Extent of LNAPL

During the RCES preparation, the AOI 81-2 LNAPL Area was calculated based on historical data. The footprint of the LNAPL area containing approximately 0.5 ft or greater of LNAPL was estimated to be approximately 28,000 square feet. The current footprint of the LNAPL area was updated (as discussed in section 2.1.3 of the main report) and is estimated to be approximately 6,200 square feet. Based on the LIF and soil boring log data, approximate depth impacts are approximately 3 to 9 ft bgs.

Boring Logs

Date Start: 9/6/2013
Date Finish: 9/6/2013
Drilling Company: Cascade
Driller's Name: Ralph Winn, Jason Greve
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 9.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 564775.764
Easting: 13306373.728
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0' bgs
Surface Elevation: 743.82

Descriptions By: D. Shaw

Well/Boring ID: **SB-81-01**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 75F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0	1	0.0-5.0	5.0	0.5 0.6 0.8 0.7 0.8			(0.0 - 5.5') SAND, very fine to fine, round; some granules to small pebbles, subangular; poorly sorted; dry; brown (10YR 5/3).		(0.0-1.0' bgs) FILL
5 / -5				0.7 0.7			(5.5 - 7.5') SAND, very fine to fine, round; trace granules, round; well sorted; dry; grayish brown.		
				0.8 1.5			(7.5 - 9.0') CLAY, high plasticity, no dilatancy; dry; stiff; dark grayish brown.		(1.0-15.0' bgs) Bentonite
10 / -10	2	5.0-15.0	10.0	2.4 1.0 0.5			(9.0 - 12.0') SAND, fine to very coarse, little granules to medium pebbles, subround; poorly sorted; wet; black (10YR 2/1). Note: Moderate odor from 9.0 to 12.0' bgs.		
				0.5 0.0			(12.0 - 13.3') SAND, very fine to fine, round; trace granules to small pebbles, subround; well sorted; wet; dark grayish brown. (13.3 - 15.0') CLAY, high plasticity, no dilatancy; stiff; dry; gray.		
15 / -15				0.0			Note: End of boring at 15.0' bgs.		
20 / -20									

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Remarks: bgs = below ground surface

Hand auger to 5.0' bgs.

SB-81-01 (0-2) collected at 1405; SB-81-01 (3-5) collected at 1410; SB-81-01 (5-7) collected at 1415; SB-81-01 (7-9) collected at 1420; and SB-81-01 (9-11) collected at 1425.

Date Start: 9/6/2013
Date Finish: 9/6/2013
Drilling Company: Cascade
Driller's Name: Ralph Winn, Jason Greve
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 9.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 564807.577
Easting: 13306430.547
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0' bgs
Surface Elevation: 742.94

Descriptions By: D. Shaw

Well/Boring ID: **SB-81-02**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 7F5

DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0	0									
					1.2			(0.0 - 8.7') SAND, very fine to medium, subround; trace granules to small pebbles, subround; poorly sorted; dry; brown (10YR 4/3).		(0.0-1.0' bgs) FILL
					1.2					
		1	0.0-5.0	5.0	11.2					
					12.3					
					12.3					
5	-5									
					10.3					
					28.5					
					27.6					(1.0-15.0' bgs) Bentonite
					28.0			(8.7 - 9.0') CLAY, high plasticity, no dilatancy; dry; stiff; gray (10YR 4/1).		
					10.0			(9.0 - 10.0') SAND, very fine, and SILT, well sorted; dry; black (10YR 2/1).		
10	-10	2	5.0-15.0	10.0	5.0			(10.0 - 11.0') SAND, very fine to fine, trace granules to small pebbles, subround; well sorted; wet; dark grayish brown.		
					0.0			(11.0 - 15.0') CLAY, high plasticity, no dilatancy; stiff; dry; gray.		
					0.0					
					0.0					
					0.0					
15	-15							Note: End of boring at 15.0' bgs,		
20	-20									

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Remarks: bgs = below ground surface

Hand auger to 5.0' bgs.

SB-81-02 (0-2) collected at 1450; SB-81-02 (3-5) collected at 1455; SB-81-02 (5-7) collected at 1500; SB-81-02 (7-9) collected at 1505; and SB-81-02 (9-11) collected at 1510.

Date Start: 9/9/2013
Date Finish: 9/9/2013
Drilling Company: Cascade
Driller's Name: Ralph Winn, Dan O'Mara
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 4.5' bgs
Water Level Finish (ft. btoc.): NA

Northing: 564895.583
Easting: 13306495.093
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0' bgs
Surface Elevation: 742.61

Descriptions By: D. Shaw

Well/Boring ID: **SB-81-03**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 75F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				0.0			(0.0 - 2.0') SAND, fine to very coarse, subround to subangular; little granules to small pebbles, subround; poorly sorted; dry; dark grayish brown (10YR 4/2).		(0.0-1.0' bgs) FILL
				0.0					
	1	0.0-5.0	5.0	0.8			(2.0 - 4.5') SAND, fine to very coarse, subround to subangular; and CLAY, little granules to small pebbles, subangular; poorly sorted; dry; dark grayish brown (10YR 4/2). Note: Some black (10YR 2/1) staining from 2.0 to 4.5' bgs.		
				3.5					
				0.8			(4.5 - 11.0') SAND, very fine to fine, subround; little clay; trace granules to small pebbles, subround; poorly sorted; wet.		
5 / -5				0.0					
				0.0			Note: Transition to black (10YR 2/1) with no clay and possible product from 10.0 to 11.0' bgs.		(1.0-15.0' bgs) Bentonite
				0.0					
				0.0					
				0.0					
10 / -10	2	5.0-15.0	8.3	0.0					
				0.0			(11.0 - 12.0') SAND, very fine, some silt; well sorted; moist. Note: Peat from 11.0 to 12.0' bgs.		
				0.0			(12.0 - 15.0') SAND, very fine to fine, well sorted; wet; olive (5YR 5/3). Note: Transition to black (10YR 2/1) from 13.0 to 15.0' bgs.		
				0.0					
				0.0					
15 / -15							Note: End of boring at 15.0' bgs.		

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Remarks: bgs = below ground surface

Hand auger to 5.0' bgs.

SB-81-03 (0-2) collected at 1340; SB-81-03 (3-5) collected at 1345; SB-81-03 (5-7) collected at 1350; SB-81-03 (7-9) collected at 1355; and SB-81-03 (9-11) collected at 1400.

Date Start: 9/9/2013
Date Finish: 9/9/2013
Drilling Company: Cascade
Driller's Name: Ralph Winn, Dan O'Mara
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 7.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 565011.869
Easting: 13306471.075
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0' bgs
Surface Elevation: 743.28

Descriptions By: D. Shaw

Well/Boring ID: **SB-81-04**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 75F

DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0	0				0.0			(0.0 - 0.5') GRAVEL FILL.		(0.0-0.5' bgs) FILL
					3.5			(0.5 - 3.5') SAND, very fine to fine, round; little granules to medium pebbles, subround; trace medium sand, subround; poorly sorted; dry; very dark gray (10YR 3/1).		
		1	0.0-5.0	5.0	17.1					
					17.9			(3.5 - 14.0') SAND, very fine to fine, well sorted; dry; very dark gray (10YR 3/1).		
5	-5				15.6					
					13.2					
					12.1			Note: Wet at 7.0' bgs.		(0.5-15.0' bgs) Bentonite
					11.0					
					8.7					
10	-10	2	5.0-15.0	8.16	8.3					
					6.1					
					3.2					
					0.0					
					0.0					
					0.0			(14.0 - 15.0') SAND, fine to medium, subround; well sorted; wet; yellowish brown (10YR 5/6).		
15	-15							Note: End of boring at 15.0' bgs.		
20	-20									

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Remarks: bgs = below ground surface

Hand auger to 5.0' bgs.

SB-81-04 (0-2) collected at 1450; SB-81-0 (3-5) collected at 1455; SB-81-04 (5-7) collected at 1500; SB-81-04 (7-9) collected at 1505; and SB-81-04 (9-11) collected at 1510.

Date Start: 9/9/2013
Date Finish: 9/9/2013
Drilling Company: Cascade
Driller's Name: Ralph Winn, Dan O'Mara
Drilling Method: Hand Auger
Sampling Method: Hand Auger
Rig Type: None
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: 564911.28
Easting: 13306365.704
Casing Elevation: NA

Borehole Depth (ft. bgs.): 2.1' bgs
Surface Elevation: 743.23

Descriptions By: D. Shaw

Well/Boring ID: **SB-81-05**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 75F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0.0-2.0	2.0	0.8 1.4			(0.0 - 2.1') SAND, very fine to coarse, subround; little granules to medium pebbles, subround; poorly sorted; dry; brown (10YR 4/3).		(0.0-0.5' bgs) FILL (0.5-2.1' bgs) Bentonite
							Note: End of boring at 2.1' bgs due to concrete slab.		
5 / -5									
10 / -10									
15 / -15									

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Remarks: bgs = below ground surface

Hand auger to 2.0' bgs.

SB-81-05 (0-2) collected at 1700.

Date Start: 12/04/2013
Date Finish: 12/04/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts
Drilling Method: Sonic
Sampling Method: 5.0' Core Barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 5.0
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 15.0
Surface Elevation:

Descriptions By: Drew Shaw

Well/Boring ID: **TW-70-101-1**

Client: RACER Buick City

Location: Flint, MI

Weather Conditions:

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
	1			1.9			(0.0 - 0.2') GRAVEL		+3.75-4.0' bgs (2.0" Sch. 40 PVC Casing)
				4.2			(0.2 - 5.0') SAND, very fine to medium, rounded; little granules to small pebbles, subrounded to subangular; trace silt; poorly sorted; dry; black (10YR 2/1)		0.0-0.5' bgs (Sand)
				5.1			NOTE: Strong Odor		0.5-2.0' bgs (Bentonite)
				6.2					
5 / -5				3.4					
	2			7.9			(5.0 - 11.0') SAND, very fine to fine, rounded; trace small to medium pebbles, subrounded; poorly sorted; wet; very dark gray (10YR 3/1)		2.0-9.0' bgs (Filter Pack)
				10.0			NOTE: Staining Observed		4.0-9.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
				9.5					
				4.3					
				1.0			NOTE: Staining Stops at 9.0' bgs, color change to olive brown (2.5Y 4/3)		
10 / -10				0.0					
				0.0			(11.0 - 15.0') Clay, high plasticity, no dilatancy; dry; stiff; dark gray (10YR 4/1)		
	3			0.0					
				0.0					
				0.0					
15 / 15							NOTE: EOB at 15.0' bgs		

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Remarks: Hand Auger to 5.0' bgs; well screened 4.0-9.0' bgs

Date Start: 12/04/2013
Date Finish: 12/04/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts
Drilling Method: Sonic
Sampling Method: 5.0' Core Barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 5.0
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 10.0
Surface Elevation:

Descriptions By: Drew Shaw

Well/Boring ID: **TW-70-101-2**

Client: RACER Buick City

Location: Flint, MI

Weather Conditions: Overcast, 35 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
	1	0.0-5.0	5.0	0.9 1.3 4.5 5.0 6.9			(0.0 - 5.0') SAND, fine to coarse, subrounded; some small to large pebbles, subrounded to subangular; some debris; poorly sorted; dry; black (10YR 2/1) NOTE: Wet at 5.0' bgs		0.0-0.5' bgs (Sand) +3.35-4.0' bgs (2.0" Sch. 40 PVC Casing) 0.5-2.0' bgs (Bentonite)
5 / -5									
	2	5.0-10.0	5.0	6.3 4.0 1.3 1.0 1.5			(5.0 - 10.0') SAND, very fine to fine, rounded; trace small to medium pebbles, subrounded; poorly sorted; wet; very dark gray (10YR 3/1) NOTE: EOB at 10.0' bgs		2.0-9.0' bgs (Filter Pack) 4.0-9.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
10 / -10									
15 / -15									

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Remarks: Hand Auger to 5.0' bgs; well screened 4.0-9.0' bgs

Date Start: 12/05/2013
Date Finish: 12/05/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts
Drilling Method: Sonic
Sampling Method: 5.0' Core Barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 5.0
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 10.0
Surface Elevation:

Descriptions By: Drew Shaw

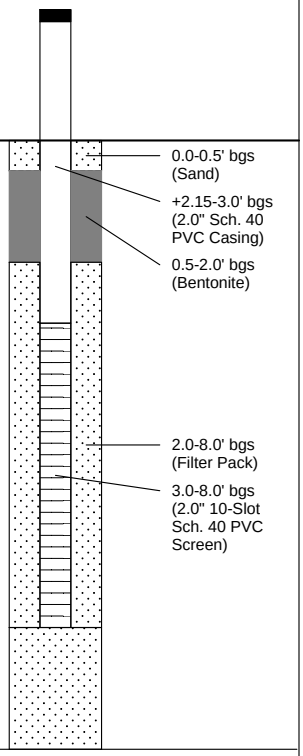
Well/Boring ID: **TW-70-101-3**

Client: RACER Buick City

Location: Flint, MI

Weather Conditions: Overcast, 35 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0								
				1.7			(0.0 - 4.0') SAND, fine to coarse, subrounded; some small to large pebbles, subrounded to subangular; some debris; poorly sorted; dry; black (10YR 2/1)	
				4.3				
	1	0.0-5.0	5.0	6.7				
				6.8				
				5.4			(4.0 - 5.0') CLAY, high plasticity, no dilatancy; moist; stiff; gray (10YR 5/1)	
5 / -5								▼
				4.5			(5.0 - 7.0') SAND, fine to medium, subrounded; little small to medium pebbles, subrounded; little clay; poorly sorted; wet; very dark brown (10YR 3/2)	
				1.5				
	2	5.0-10.0	5.0	0.5			(7.0 - 10.0') SAND, very fine to fine, rounded; trace small to medium pebbles, subrounded; poorly sorted; wet; very dark gray (10YR 3/1)	
				0.5				
				0.1				
10 / -10							NOTE: EOB at 10.0' bgs	
15 / -15								



Well/Boring Construction

Remarks: Hand Auger to 5.0' bgs; well screened 3.0-8.0' bgs

ARCADIS
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Date Start: 12/05/2013
Date Finish: 12/05/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts
Drilling Method: Sonic
Sampling Method: 5.0' Core Barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 5.0
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 10.0
Surface Elevation:

Descriptions By: Drew Shaw

Well/Boring ID: **TW-70-101-4**

Client: RACER Buick City

Location: Flint, MI

Weather Conditions: Overcast, 35 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
	1	0.0-5.0	5.0	0.0 1.5 1.5 1.0 1.5			(0.0 - 5.0') SAND, fine to coarse, subrounded; some small to large pebbles, subrounded to subangular; some debris; poorly sorted; dry; black (10YR 2/1)		0.0-0.5' bgs (Sand) 0.5-2.0' bgs (Bentonite) +0.9-4.0' bgs (2.0" Sch. 40 PVC Casing)
5 / -5							NOTE: Wet at 5.0' bgs	▼	
	2	5.0-10.0	5.0	1.2 1.5 1.5 1.1 1.0			(5.0 - 10.0') SAND, very fine to fine, rounded; trace small to medium pebbles, subrounded; poorly sorted; wet; very dark gray (10YR 3/1)		2.0-9.0' bgs (Filter Pack) 4.0-9.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
10 / -10							NOTE: EOB at 10.0' bgs		
15 / -15									

Remarks: Hand Auger to 5.0' bgs; well screened 4.0-9.0' bgs

ARCADIS
Infrastructure · Water · Environment · Buildings

Date Start: 12/05/2013
Date Finish: 12/05/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts
Drilling Method: Sonic
Sampling Method: 5.0' Core Barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 5.0
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 10.0
Surface Elevation:

Descriptions By: Drew Shaw

Well/Boring ID: **TW-70-101-5**

Client: RACER Buick City

Location: Flint, MI

Weather Conditions: Overcast, 35 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
	1	0.0-5.0	5.0	1.0 1.9 2.5 65.1 6.9			(0.0 - 8.0') SAND, fine to coarse, subrounded; some small to large pebbles, subrounded to subangular; some debris; poorly sorted; dry; black (10YR 2/1) NOTE: little clay 4.0-5.0' bgs NOTE: Wet at 5.0' bgs	▼	0.0-0.5' bgs (Sand) +1.9-3.0' bgs (2.0" Sch. 40 PVC Casing) 0.5-2.0' bgs (Bentonite) 2.0-8.0' bgs (Filter Pack) 3.0-8.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
5 / -5									
	2	5.0-10.0	4.0	11.5 10.9 7.6 0.5 0.0			(8.0 - 10.0') SAND, very fine to fine, rounded; trace small to medium pebbles, subrounded; poorly sorted; wet; very dark gray (10YR 3/1) NOTE: EOB at 10.0' bgs		
10 / -10									
15 / -15									

Remarks: Hand Auger to 5.0' bgs; well screened 3.0-8.0' bgs

ARCADIS
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Date Start: 12/05/2013
Date Finish: 12/05/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts
Drilling Method: Sonic
Sampling Method: 5.0' Core Barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 5.0
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 10.0
Surface Elevation:

Descriptions By: Drew Shaw

Well/Boring ID: **TW-70-101-6**

Client: RACER Buick City

Location: Flint, MI

Weather Conditions: Overcast, 35 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0.0-5.0	5.0	1.5			(0.0 - 7.0') SAND, fine to coarse, subrounded; some small to large pebbles, subrounded to subangular; some debris; poorly sorted; dry; black (10YR 2/1)		0.0-0.5' bgs (Sand)
				1.9					0.5-2.0' bgs (Bentonite)
				10.1					+0.9-4.0' bgs (2.0" Sch. 40 PVC Casing)
				13.2					
5 / -5				14.5			NOTE: Wet at 5.0' bgs	▼	
	2	5.0-10.0	4.0	5.1					2.0-9.0' bgs (Filter Pack)
				4.1					4.0-9.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
				2.6			(7.0 - 10.0') SAND, very fine to fine, rounded; trace small to medium pebbles, subrounded; poorly sorted; wet; very dark gray (10YR 3/1)		
				2.5					
10 / -10				2.5			NOTE: staining from 9.0-10.0' bgs NOTE: EOB at 10.0' bgs		
15 / -15									

Remarks: Hand Auger to 5.0' bgs; well screened 4.0-9.0' bgs

ARCADIS
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Date Start: 12/05/2013
Date Finish: 12/05/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts
Drilling Method: Sonic
Sampling Method: 5.0' Core Barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 5.0
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 10.0
Surface Elevation:

Descriptions By: Drew Shaw

Well/Boring ID: **TW-70-101-7**

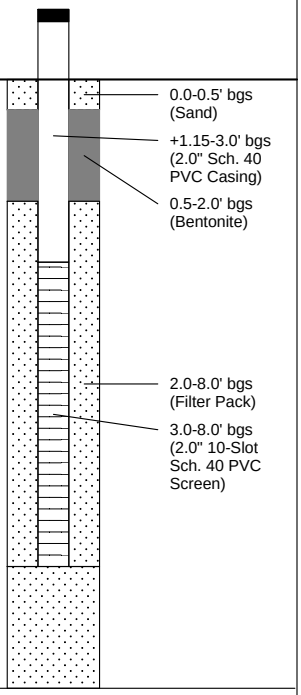
Client: RACER Buick City

Location: Flint, MI

Weather Conditions: Overcast, 35 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0								
	1	0.0-5.0	5.0	0.0			(0.0 - 4.0') SAND, fine to coarse, subrounded; some small to large pebbles, subrounded to subangular; some debris; poorly sorted; dry; black (10YR 2/1)	
				0.0				
				0.5				
				1.0				
				2.5			(4.0 - 8.0') SAND, very fine to fine, rounded; trace small to medium pebbles, subrounded; poorly sorted; wet; very dark gray (10YR 3/1)	
5 / -5				1.0			NOTE: Wet at 5.0' bgs	▼
	2	5.0-10.0	5.0	1.0				
				0.5				
				0.0			(8.0 - 10.0') SAND, very fine to fine, rounded; well sorted; wet; olive brown (2.5Y 4/3)	
10 / -10				0.0			NOTE: EOB at 10.0' bgs	
15 / -15								

Well/Boring Construction



Remarks: Hand Auger to 5.0' bgs; well screened 3.0-8.0' bgs

ARCADIS
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Date Start: 12/10/2013
Date Finish: 12/10/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts and Randy O'Hearn
Drilling Method: Rotasonic
Sampling Method: 5.0' Core Barrel
Rig Type: Rotasonic
Water Level Start (ft. bgs.): 4.5
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 15.0
Surface Elevation:

Descriptions By: Adam Richmond

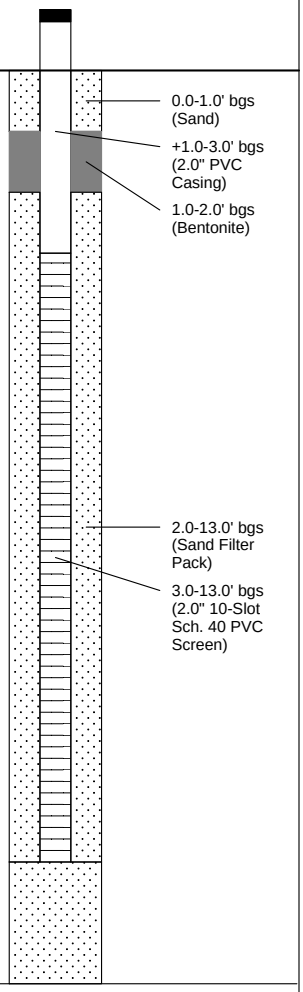
Well/Boring ID: **TW-70-103-1**

Client: RACER Buick City

Location: Flint, MI

Weather Conditions: Windy, Cloudy, 15 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0								
	1	0.0-5.0	5.0	12.9 3.0 5.0 4.5 4.8			(0.0 - 4.0') SAND, medium, trace coarse, subangular; little clay; little medium pebbles, subangular; trace large pebbles, subangular; poorly sorted; moist; black (10YR 2/1) NOTE: slag (metal chunks, fine debris, etc.), strong odor	
5 / -5							(4.0 - 12.0') SAND, medium, subrounded; and SILT, low plasticity; little clay; wet; olive brown to very dark gray (2.5Y 4/6 to 10YR 4/1) NOTE: wet at 4.5' bgs	▼
	2	5.0-10.0	4.3	1.1 0.6 0.9 1.1 0.6			NOTE: Product; strong odor, sheen, staining	
10 / -10								
	3	10.0-13.0	4.2	0.9 0.6 0.2			(12.0 - 13.5') SAND, medium, subrounded; little medium pebbles, subrounded to subangular; poorly sorted; wet; olive brown (2.5Y 4/6)	
	4	13.0-15.0	2.0	0.0 0.0			(13.5 - 15.0') CLAY, high plasticity, no dilatancy; dry; stiff; dark gray (10YR 4/1) NOTE: EOB at 15.0' bgs	
15 / -15								



Remarks: Hand Auger to 5.0' bgs; well screened 3.0-13.0' bgs

ARCADIS
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Date Start: 12/10/2013
Date Finish: 12/10/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts and Randy O'Hearn
Drilling Method: Rotasonic
Sampling Method: 5.0' Core Barrel
Rig Type: Rotasonic
Water Level Start (ft. bgs.): 5.0
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 15.0
Surface Elevation:

Descriptions By: Adam Richmond

Well/Boring ID: **TW-70-103-2**

Client: RACER Buick City

Location: Flint, MI

Weather Conditions: Windy, Cloudy, 15 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
	1	0.0-5.0	5.0	0.9 1.1 3.5 4.8 3.0			(0.0 - 4.0') SAND, medium, trace coarse, subangular; little clay; little medium pebbles, subangular; trace large pebbles, subangular; poorly sorted; moist; black (10YR 2/1) NOTE: slag (metal chunks, fine debris, etc.), strong odor		0.0-1.0' bgs (Sand) +1.0-4.0' bgs (2.0" PVC Casing) 1.0-3.0' bgs (Bentonite)
5 / -5							(4.0 - 11.5') SAND, medium, subrounded; and SILT, low plasticity; little clay; wet; olive brown to very dark gray (2.5Y 4/6 to 10YR 4/1) NOTE: wet at 4.5' bgs NOTE: Product; strong odor, sheen, staining	▼	
	2	5.0-10.0	4.2	0.9 1.1 0.6 0.9 0.9					4.0-9.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen) 3.0-10.0' bgs (Sand Filter Pack)
10 / -10									
	3	10.0-15.0	5.0	0.9 0.0 0.0 0.0 0.0			(11.5 - 15.0') CLAY, high plasticity, no dilatancy; dry; stiff; dark gray (10YR 4/1)		10.0-15.0' bgs (Bentonite)
15 / -15							NOTE: EOB at 15.0' bgs		

Remarks: Hand Auger to 5.0' bgs; well screened 4.0-9.0' bgs

ARCADIS
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Date Start: 12/11/2013
Date Finish: 12/11/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts and Randy O'Hearn
Drilling Method: Rotasonic
Sampling Method: 5.0' Core Barrel
Rig Type: Rotasonic
Water Level Start (ft. bgs.): 5.0
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 13.0
Surface Elevation:

Descriptions By: Adam Richmond

Well/Boring ID: TW-70-103-3
Client: RACER Buick City
Location: Flint, MI

Weather Conditions: Windy, Cloudy, 15 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0.0-5.0	5.0	0.8 0.9 0.1 0.1 0.4			(0.0 - 4.0') SAND, medium, trace coarse, subangular; little clay; little medium pebbles, subangular; trace large pebbles, subangular; poorly sorted; moist; black (10YR 2/1) NOTE: slag (metal chunks, fine debris, etc.), strong odor		0.0-1.0' bgs (Sand) +1.0-3.0' bgs (2.0" PVC Casing) 1.0-2.0' bgs (Bentonite)
5 / -5	2	5.0-10.0	4.0	0.0 0.0 0.0 0.0 0.0			(4.0 - 12.5') SAND, medium, subrounded; and SILT, low plasticity; little clay; wet; olive brown to very dark gray (2.5Y 4/6 to 10YR 4/1) NOTE: wet at 5.0' bgs NOTE: Product; strong odor, sheen, staining	▼	2.0-13.0' bgs (Sand Filter Pack) 3.0-13.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
10 / -10	3	10.0-13.0	3.0				(12.5 - 13.0') CLAY, high plasticity, no dilatancy; dry; stiff; dark gray (10YR 4/1) NOTE: EOB at 13.0' bgs		
15 / -15									

ARCADIS
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Remarks: Hand Auger to 5.0' bgs; well screened 3.0-13.0' bgs

Date Start: 12/11/2013
Date Finish: 12/11/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts and Randy O'Hearn
Drilling Method: Rotasonic
Sampling Method: 5.0' Core Barrel
Rig Type: Rotasonic
Water Level Start (ft. bgs.): 5.0
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 13.0
Surface Elevation:

Descriptions By: Adam Richmond

Well/Boring ID: TW-70-103-4
Client: RACER Buick City
Location: Flint, MI

Weather Conditions: Windy, Cloudy, 15 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
	1	0.0-5.0	5.0	0.3 0.5 2.5 1.5 1.5			(0.0 - 4.0') SAND, medium, trace coarse, subangular; little clay; little medium pebbles, subangular; trace large pebbles, subangular; poorly sorted; moist; black (10YR 2/1) NOTE: slag (metal chunks, fine debris, etc.), strong odor		0.0-1.0' bgs (Sand) +1.0-3.0' bgs (2.0" PVC Casing) 1.0-2.0' bgs (Bentonite)
5 / -5							(4.0 - 12.0') SAND, medium, subrounded; and SILT, low plasticity; little clay; wet; olive brown to very dark gray (2.5Y 4/6 to 10YR 4/1) NOTE: wet at 5.0' bgs	▼	
	2	5.0-10.0	1.5	0.7 1.7 1.7 1.2 1.2			NOTE: Product; strong odor, sheen, staining		2.0-13.0' bgs (Sand Filter Pack) 3.0-13.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
10 / -10									
	3	10.0-13.0	1.8	1.2 1.2 1.1			(12.0 - 13.0') SAND, medium, subrounded; little medium pebbles, subrounded to subangular; poorly sorted; wet; olive brown (2.5Y 4/6) NOTE: EOB at 13.0' bgs		
15 / -15									

Remarks: Hand Auger to 5.0' bgs; well screened 3.0-13.0' bgs

ARCADIS
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Date Start: 12/11/2013
Date Finish: 12/11/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts and Randy O'Hearn
Drilling Method: Rotasonic
Sampling Method: 5.0' Core Barrel
Rig Type: Rotasonic
Water Level Start (ft. bgs.): 5.5
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 13.0
Surface Elevation:

Descriptions By: Adam Richmond

Well/Boring ID: **TW-70-103-5**

Client: RACER Buick City

Location: Flint, MI

Weather Conditions: Windy, Cloudy, 15 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				1.2			(0.0 - 3.0') SAND, medium, subrounded; little medium pebbles, subrounded to subangular; trace large pebbles, subrounded to subangular; poorly sorted; moist; dark brown to black (10YR 2/2)		0.0-1.0' bgs (Sand)
				0.5			NOTE: trace roots		+1.0-3.0' bgs (2.0" PVC Casing)
	1	0.0-5.0	5.0	0.4					1.0-2.0' bgs (Bentonite)
				2.8			(3.0 - 8.0') SAND, medium, subrounded; and SILT, low plasticity; little clay; poorly sorted; moist; dark gray to black (2.5Y 2.5/1)		
				4.7			NOTE: strong odor and staining		
5 / -5				1.3				▼	
				3.5			NOTE: wet at 5.5' bgs		
	2	5.0-10.0	3.5	4.8					2.0-13.0' bgs (Sand Filter Pack)
				5.1			(8.0 - 12.5') SAND, fine, subrounded; well sorted; wet; gray to brown (2.5Y 4/1 - 2.5Y 5/4)		3.0-13.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
				3.2					
10 / -10				2.4					
	3	10.0-13.0	2.7	1.9					
				1.1			(12.5 - 13.0') CLAY, high plasticity, no dilatancy; dry; stiff; dark gray (10YR 4/1)		
							NOTE: EOB at 13.0' bgs		
15 / -15									

Remarks: Hand Auger to 5.0' bgs; well screened 3.0-13.0' bgs

ARCADIS
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Date Start: 12/11/2013
Date Finish: 12/11/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts and Randy O'Hearn
Drilling Method: Rotasonic
Sampling Method: 5.0' Core Barrel
Rig Type: Rotasonic
Water Level Start (ft. bgs.): 5.5
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 13.0
Surface Elevation:

Descriptions By: Adam Richmond

Well/Boring ID: **TW-70-103-5**

Client: RACER Buick City

Location: Flint, MI

Weather Conditions: Windy, Cloudy, 15 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				1.2			(0.0 - 3.0') SAND, medium, subrounded; little medium pebbles, subrounded to subangular; trace large pebbles, subrounded to subangular; poorly sorted; moist; dark brown to black (10YR 2/2)		0.0-1.0' bgs (Sand)
				0.5					+1.0-3.0' bgs (2.0" PVC Casing)
	1	0.0-5.0	5.0	0.4			NOTE: trace roots		1.0-2.0' bgs (Bentonite)
				2.8			(3.0 - 8.0') SAND, medium, subrounded; and SILT, low plasticity; little clay; poorly sorted; moist; dark gray to black (2.5Y 2.5/1)		
				4.7			NOTE: strong odor and staining		
5 / -5				1.3				▼	
				3.5			NOTE: wet at 5.5' bgs		
	2	5.0-10.0	3.5	4.8					2.0-13.0' bgs (Sand Filter Pack)
				5.1			(8.0 - 12.5') SAND, fine, subrounded; well sorted; wet; gray to brown (2.5Y 4/1 - 2.5Y 5/4)		3.0-13.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
10 / -10				3.2					
				2.4					
	3	10.0-13.0	2.7	1.9					
				1.1			(12.5 - 13.0') CLAY, high plasticity, no dilatancy; dry; stiff; dark gray (10YR 4/1)		
							NOTE: EOB at 13.0' bgs		
15 / -15									

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Remarks: Hand Auger to 5.0' bgs; well screened 3.0-13.0' bgs

Date Start: 12/11/2013
Date Finish: 12/11/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts and Randy O'Hearn
Drilling Method: Rotasonic
Sampling Method: 5.0' Core Barrel
Rig Type: Rotasonic
Water Level Start (ft. bgs.): 5.0
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:

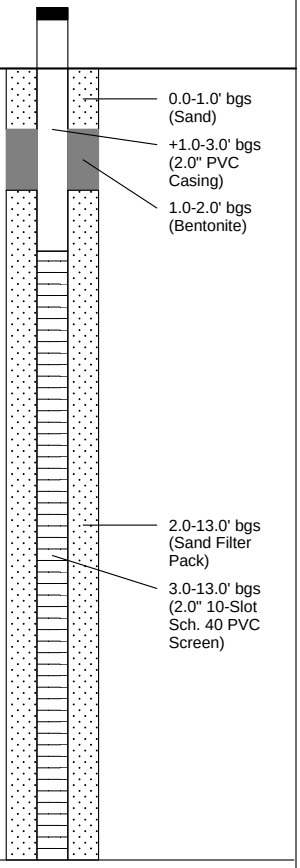
Borehole Depth (ft. bgs.): 13.0
Surface Elevation:

Descriptions By: Adam Richmond

Well/Boring ID: TW-70-103-6
Client: RACER Buick City
Location: Flint, MI

Weather Conditions: Windy, Cloudy, 15 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0				0.7			(0.0 - 3.0') SAND, medium, subrounded; little medium pebbles, subrounded to subangular; trace large pebbles, subrounded to subangular; poorly sorted; moist; dark brown to black (10YR 2/2)	
				0.6				
	1	0.0-5.0	5.0	2.3			NOTE: trace roots	
				2.6			(3.0 - 8.0') SAND, medium, subrounded; and SILT, low plasticity; little clay; poorly sorted; moist; dark gray to black (2.5Y 2.5/1)	
				4.6			NOTE: strong odor and staining	
5 / -5				3.1			NOTE: wet at 5.0' bgs	▼
				4.1				
	2	5.0-10.0	3.75	3.0				
				4.0			(8.0 - 12.5') SAND, fine, subrounded; well sorted; wet; gray to brown (2.5Y 4/1 - 2.5Y 5/4)	
				6.9				
10 / -10				1.5				
	3	10.0-13.0	4	0.9				
				0.7			(12.5 - 13.0') CLAY, high plasticity, no dilatancy; dry; stiff; dark gray (10YR 4/1)	
							NOTE: EOB at 13.0' bgs	
15 / -15								



Well/Boring Construction

Remarks: Hand Auger to 5.0' bgs; well screened 3.0-13.0' bgs

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Date Start: 12/11/2013
Date Finish: 12/11/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts and Randy O'Hearn
Drilling Method: Rotasonic
Sampling Method: 5.0' Core Barrel
Rig Type: Rotasonic
Water Level Start (ft. bgs.): 5.0
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 13.0
Surface Elevation:

Descriptions By: Adam Richmond

Well/Boring ID: TW-70-103-7
Client: RACER Buick City
Location: Flint, MI

Weather Conditions: Windy, Cloudy, 19 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
	1	0.0-5.0	5.0	1.3			(0.0 - 4.0') SAND, medium, trace coarse, subangular; little clay; little medium pebbles, subangular; trace large pebbles, subangular; poorly sorted; moist; black (10YR 2/1)		0.0-1.0' bgs (Sand)
				1.0					+1.0-3.0' bgs (2.0" PVC Casing)
				2.7			NOTE: slag (metal chunks, fine debris, etc.), strong odor		1.0-2.0' bgs (Bentonite)
				6.2					
				4.8			(4.0 - 12.5') SAND, medium, subrounded; and SILT, low plasticity; little clay; wet; olive brown to very dark gray (2.5Y 4/6 to 10YR 4/1)		
5 / -5							NOTE: wet at 5.0' bgs	▼	
				0.9					
				1.8			NOTE: Product; strong odor, sheen, staining		
	2	5.0-10.0	4.6	1.3					2.0-13.0' bgs (Sand Filter Pack)
				0.8					3.0-13.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
				1.2					
10 / -10				0.2					
	3	10.0-13.0	4.7	0.2					
				0.2			(12.5 - 13.0') CLAY, high plasticity, no dilatancy; dry; stiff; dark gray (10YR 4/1)		
							NOTE: EOB at 13.0' bgs		
15 / -15									

Remarks: Hand Auger to 5.0' bgs; well screened 3.0-13.0' bgs

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Date Start: 2/24/2014
Date Finish: 2/24/2014
Drilling Company: Cascade Drilling
Driller's Name: John Roberts and James Vanconant
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 5.5'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 13.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **TW-70-103-08**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Overcast, 19 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0.0-5.0	5.0	0.0 0.0 0.0 0.0 0.0			(0.0 - 3.0') SAND, medium, subrounded; little medium pebbles, subrounded to subangular; trace large pebbles, subrounded to subangular; poorly sorted; moist; dark brownish black (10YR 2/2).		+2.0-3.0' bgs (2.0" PVC Casing) 0.0-3.0' bgs (Medium Bentonite Chips)
5 / -5	2	5.0-10.0	5.0	0.0 0.0 0.0 0.0 0.0			(3.0 - 8.0') SAND, medium, subrounded; and SILT, low plasticity; little clay; poorly sorted; moist; dark grayish black (2.5Y 2.5/1). NOTE: Strong odor and black staining (10YR 2/1) from 3.0 to 7.5' bgs. NOTE: Wet at 5.5' bgs.	▼	2.0-13.0' bgs (#1 Global Filter Pack Sand) 3.0-13.0' bgs (2.0" 10-Slot Sch. 40 Well Screen)
10 / -10	3	10.0-13.0	3.0	0.0 0.0 0.0			(8.0 - 13.0') SAND, fine; well sorted; wet; gray to brown (2.5Y 4/1 - 2.5Y 5/4). NOTE: Sheen from 10.0 to 12.0' bgs.		
15 / -15							End of boring at 13.0' bgs.		

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Remarks: bgs = below ground surface
btoc = below top of casing

Approximately 25 gallons of drilling water used.

Date Start: 1/31/2014
Date Finish: 1/31/2014
Drilling Company: Cascade Drilling
Driller's Name: John Roberts and Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 6.0'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **TW-70-103-09**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 25 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				0.0			(0.0 - 3.0') SAND, medium, subrounded; little medium pebbles, subrounded to subangular; trace large pebbles, subrounded to subangular; poorly sorted; moist; dark brownish black (10YR 2/2).		0.0-1.0' bgs (Native Sand)
				0.0					+1.0-3.0' bgs (2.0" PVC Casing)
				0.7			NOTE: Trace roots.		1.0-2.0' bgs (Bentonite)
	1	0.0-6.0	6.0	1.9			(3.0 - 8.0') SAND, medium, subrounded; and SILT, low plasticity; little clay; poorly sorted; moist; dark grayish black (2.5Y 2.5/1).		
5 / -5				2.1			NOTE: Strong odor and staining from 3.0 to 8.0' bgs.		
				3.3				▼	
				1.3			NOTE: Wet at 6.0' bgs. Product observed from 6.0 to 8.0' bgs.		2.0-15.0' bgs (Sand Filter Pack)
	2	6.0-10.0	4.0	1.6					
				0.0			(8.0 - 12.5') SAND, fine; well sorted; wet; gray (2.5Y 4/1).		3.0-13.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
10 / -10				10.3					
				0.0			NOTE: Transition to brown (2.5Y 5/4).		
				0.5					
	3	10.0-15.0	5.0	0.0			(12.5 - 15.0') CLAY, high plasticity, no dilatancy; dry; stiff; dark gray (10YR 4/1).		
				0.0					
				0.0					
15 / -15							End of boring at 15.0' bgs.		

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Remarks: bgs = below ground surface
btoc = below top of casing

Hand auger to 6.0' bgs. Approximately 20 gallons of drilling water used.

TW-70-103-09 (3-5) collected at 1445
TW-70-103-09 (5-7) collected at 1450
TW-70-103-09 (7-9) collected at 1455

Date Start: 2/24/2014
Date Finish: 2/24/2014
Drilling Company: Cascade Drilling
Driller's Name: John Roberts and James Vanconant
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 6.0'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 13.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **TW-70-103-10**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Overcast, 19 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
	1	0.0-5.0	5.0	0.0 0.0 0.3 0.8 1.2			(0.0 - 3.0') SAND, medium, subrounded; little medium pebbles, subrounded to subangular; trace large pebbles, subrounded to subangular; poorly sorted; moist; dark brownish black (10YR 2/2). NOTE: Mild odor and black staining (10YR 2/1) from 2.0 to 6.0' bgs.		+2.0-3.0' bgs (2.0" PVC Casing) 0.0-3.0' bgs (Medium Bentonite Chips)
5 / -5	2	5.0-10.0	5.0	1.7 0.6 0.4			(3.0 - 8.0') SAND, medium, subrounded; and SILT, low plasticity; little clay; poorly sorted; moist; dark grayish black (2.5Y 2.5/1). NOTE: Wet at 6.0' bgs.	▼	2.0-13.0' bgs (#1 Global Filter Pack Sand)
10 / -10	3	10.0-13.0	3.0	0.4 0.3 0.2 0.2 0.2			(8.0 - 13.0') SAND, fine; well sorted; wet; gray (2.5Y 4/1). NOTE: Transition to brown (2.5Y 5/4).		3.0-13.0' bgs (2.0" 10-Slot Sch. 40 Well Screen)
15 / -15							End of boring at 13.0' bgs.		

ARCADIS
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Remarks: bgs = below ground surface
btoc = below top of casing

Approximately 25 gallons of drilling water used.

Date Start: 2/24/2014
Date Finish: 2/24/2014
Drilling Company: Cascade Drilling
Driller's Name: John Roberts and James Vanconant
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 5.0
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 13.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **TW-70-103-11**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Overcast, 19 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
	1	0.0-5.0	5.0	0.1 0.1 0.1 1.2 0.3			(0.0 - 4.0') SAND, medium, subrounded; little medium pebbles, subrounded to subangular; trace large pebbles, subrounded to subangular; poorly sorted; moist; dark brownish black (10YR 2/2). NOTE: Strong odor and black staining from 2.0 to 8.0' bgs.		+2.0-3.0' bgs (2.0" PVC Casing) 0.0-3.0' bgs (Medium Bentonite Chips)
5 / -5							(4.0 - 7.0') SAND, medium, subrounded; and SILT, low plasticity; little clay; poorly sorted; moist; dark grayish black (2.5Y 2.5/1). NOTE: Wet at 5.0' bgs.	▼	
	2	5.0-10.0	5.0	0.2 0.2 0.2 0.2 0.2			(7.0 - 13.0') SAND, fine; well sorted; wet; gray (2.5Y 4/1). NOTE: Transition to brown (2.5Y 5/4) at 10.0' bgs.		2.0-13.0' bgs (#1 Global Filter Pack Sand) 3.0-13.0' bgs (2.0" 10-Slot Sch. 40 Well Screen)
10 / -10									
	3	10.0-13.0	3.0	0.1 0.1 0.1			NOTE: Sheen observed from 10.0 to 12.0' bgs.		
15 / -15							End of boring at 13.0' bgs.		

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Remarks: bgs = below ground surface
btoc = below top of casing

Approximately 25 gallons of drilling water used.

Date Start: 12/09/2013
Date Finish: 12/09/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts and Randy O'Hearn
Drilling Method: Rotasonic
Sampling Method: 5.0' Core Barrel
Rig Type: Rotasonic
Water Level Start (ft. bgs.): 4.5
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 12.5
Surface Elevation:

Descriptions By: Adam Richmond

Well/Boring ID: **TW-70-107R-1**

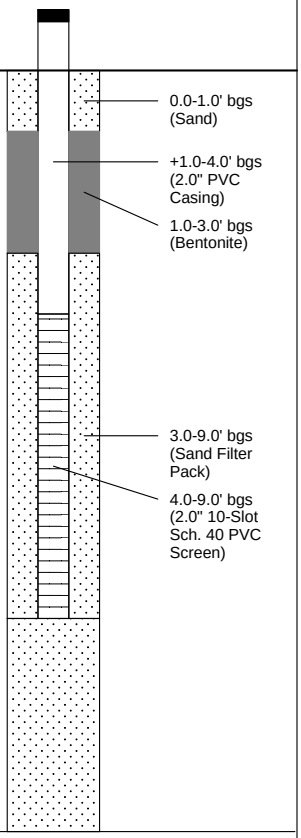
Client: RACER Buick City

Location: Flint, MI

Weather Conditions: Snow, 25 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0								
				1.8			(0.0 - 4.5') SAND, coarse, subrounded to subangular; little medium pebbles, subangular; little granules, subrounded to subangular; poorly sorted; dry; dark yellowish brown (10YR 4/6)	
				0.6			NOTE: railroad ties and slag (metal chunks, etc.)	
	1	0.0-5.0	5.0	0.0				
				0.0				
				0.0				
5 / -5							(4.5 - 10.5') SAND, medium; and SILT; little medium pebbles, subangular; trace large pebbles, subrounded to subangular; wet; very dark gray (2.5Y 3/1)	▼
				0.0			NOTE: moderate odor, sheen and staining from 5.0-9.5' bgs	
				0.0				
	2	5.0-10.0	5.0	0.0				
				0.0				
				0.0				
10 / -10								
				0.0			(10.5 - 11.5') SILT, nonplastic; dry; soft; black (2.5Y 2.5/1)	
	3	10.0-12.5	2.5	0.0			(11.5 - 12.5') CLAY, high plasticity, no dilatancy; dry; very stiff; dark gray (2.5Y 4/1)	
				0.0			NOTE: EOB at 12.5' bgs	
15 / -15								

Well/Boring Construction



Remarks: Hand Auger to 5.0' bgs; well screened 4.0-9.0' bgs

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Date Start: 12/09/2013
Date Finish: 12/09/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts and Randy O'Hearn
Drilling Method: Rotasonic
Sampling Method: 5.0' Core Barrel
Rig Type: Rotasonic
Water Level Start (ft. bgs.): 5.0
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 12.0
Surface Elevation:

Descriptions By: Adam Richmond

Well/Boring ID: **TW-70-107R-2**

Client: RACER Buick City

Location: Flint, MI

Weather Conditions: Overcast and Windy, 25 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0.0-5.0	5.0	0.0 0.0 0.0 0.0 0.0			(0.0 - 4.5') SAND, coarse, subrounded to subangular; little medium pebbles, subangular; little granules, subrounded to subangular; poorly sorted; dry; dark yellowish brown (10YR 4/6) NOTE: railroad ties and slag (metal chunks, etc.)		0.0-1.0' bgs (Sand) +1.0-4.0' bgs (2.0" PVC Casing) 1.0-3.0' bgs (Bentonite)
5 / -5	2	5.0-10.0	3.0	0.4 0.6 0.4 0.4 0.6			(4.5 - 10.5') SAND, medium; and SILT; little medium pebbles, subangular; trace large pebbles, subrounded to subangular; wet; very dark gray (2.5Y 3/1) NOTE: moderate odor, sheen and staining from 5.0-9.5' bgs	▼	3.0-9.0' bgs (Sand Filter Pack) 4.0-9.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
10 / -10	3	10.0-12.0	4.0	0.9 0.1			(10.5 - 11.5') SILT, nonplastic; dry; soft; black (2.5Y 2.5/1) (11.5 - 12.0') SAND, medium, little coarse, subangular; little silt; little small pebbles, subangular; poorly sorted; wet; olive brown (2.5Y 4/6) NOTE: EOB at 12.0' bgs		
15 / -15									

Remarks: Hand Auger to 5.0' bgs; well screened 4.0-9.0' bgs

ARCADIS
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Date Start: 12/09/2013
Date Finish: 12/09/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts and Randy O'Hearn
Drilling Method: Rotasonic
Sampling Method: 5.0' Core Barrel
Rig Type: Rotasonic
Water Level Start (ft. bgs.): 5.0
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 12.0
Surface Elevation:

Descriptions By: Adam Richmond

Well/Boring ID: **TW-70-107R-3**

Client: RACER Buick City

Location: Flint, MI

Weather Conditions: Snow, 25 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0.0-5.0	5.0	0.4 0.6 0.6 0.6 0.4			(0.0 - 4.5') SAND, coarse, subrounded to subangular; little medium pebbles, subangular; little granules, subrounded to subangular; poorly sorted; dry; dark yellowish brown (10YR 4/6) NOTE: railroad ties and slag (metal chunks, etc.)		0.0-1.0' bgs (Sand) +1.0-4.0' bgs (2.0" PVC Casing) 1.0-3.0' bgs (Bentonite)
5 / -5	2	5.0-10.0	5.0	0.4 0.0 0.0 0.4 0.4			(4.5 - 10.5') SAND, medium; and SILT; little medium pebbles, subangular; trace large pebbles, subrounded to subangular; wet; very dark gray (2.5Y 3/1) NOTE: moderate odor, sheen and staining from 5.0-9.5' bgs	▼	3.0-9.0' bgs (Sand Filter Pack) 4.0-9.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
10 / -10	3	10.0-12.0	2.0	0.4 0.4			(10.5 - 11.5') SILT, nonplastic; dry; soft; black (2.5Y 2.5/1) (11.5 - 12.0') CLAY, high plasticity, no dilatancy; dry; very stiff; dark gray (2.5Y 4/1) NOTE: EOB at 12.0' bgs		
15 / -15									

ARCADIS
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Remarks: Hand Auger to 5.0' bgs; well screened 4.0-9.0' bgs

Date Start: 12/09/2013
Date Finish: 12/09/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts and Randy O'Hearn
Drilling Method: Rotasonic
Sampling Method: 5.0' Core Barrel
Rig Type: Rotasonic
Water Level Start (ft. bgs.): 6.0
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 10.0
Surface Elevation:

Descriptions By: Adam Richmond

Well/Boring ID: **TW-70-107R-4**

Client: RACER Buick City

Location: Flint, MI

Weather Conditions: Snow, 25 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0.0-5.0	5.0	1.1 4.0 0.6 0.4 0.2			(0.0 - 4.5') SAND, coarse, subrounded to subangular; little medium pebbles, subangular; little granules, subrounded to subangular; poorly sorted; dry; dark yellowish brown (10YR 4/6) NOTE: railroad ties and slag (metal chunks, etc.)		0.0-1.0' bgs (Sand) +1.0-4.0' bgs (2.0" PVC Casing) 1.0-3.0' bgs (Bentonite)
5 / -5	2	5.0-10.0	3.7	0.6 0.4 0.4 0.2 0.0			(4.5 - 10.0') SAND, medium; and SILT; little medium pebbles, subangular; trace large pebbles, subrounded to subangular; wet; very dark gray (2.5Y 3/1) NOTE: moderate odor, sheen and staining from 5.0-9.5' bgs NOTE: EOB at 10.0' bgs	▼	3.0-9.0' bgs (Sand Filter Pack) 4.0-9.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
10 / -10									
15 / -15									

Remarks: Hand Auger to 5.0' bgs; well screened 4.0-9.0' bgs

ARCADIS
Infrastructure · Water · Environment · Buildings

Date Start: 12/09/2013
Date Finish: 12/09/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts and Randy O'Hearn
Drilling Method: Rotasonic
Sampling Method: 5.0' Core Barrel
Rig Type: Rotasonic
Water Level Start (ft. bgs.): 5.0
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 10.0
Surface Elevation:

Descriptions By: Adam Richmond

Well/Boring ID: TW-70-107R-5

Client: RACER Buick City

Location: Flint, MI

Weather Conditions: Overcast and windy, 25 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0.0-5.0	5.0	1.1 3.1 1.1 0.9 0.4			(0.0 - 4.5') SAND, coarse, subrounded to subangular; little medium pebbles, subangular; little granules, subrounded to subangular; poorly sorted; dry; dark yellowish brown (10YR 4/6) NOTE: railroad ties and slag (metal chunks, etc.)		0.0-1.0' bgs (Sand) +1.0-4.0' bgs (2.0" PVC Casing) 1.0-3.0' bgs (Bentonite)
5 / -5	2	5.0-10.0	5.0	0.4 0.6 0.4 0.4 0.4			(4.5 - 10.0') SAND, medium; and SILT; little medium pebbles, subangular; trace large pebbles, subrounded to subangular; wet; very dark gray (2.5Y 3/1) NOTE: moderate odor, sheen and staining from 5.0-9.5' bgs NOTE: EOB at 10.0' bgs	▼	3.0-9.0' bgs (Sand Filter Pack) 4.0-9.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
10 / -10									
15 / -15									

Remarks: Hand Auger to 5.0' bgs; well screened 4.0-9.0' bgs

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Date Start: 12/10/2013
Date Finish: 12/10/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts and Randy O'Hearn
Drilling Method: Rotasonic
Sampling Method: 5.0' Core Barrel
Rig Type: Rotasonic
Water Level Start (ft. bgs.): 5.5
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 10.0
Surface Elevation:

Descriptions By: Adam Richmond

Well/Boring ID: **TW-70-107R-6**

Client: RACER Buick City

Location: Flint, MI

Weather Conditions: Overcast and windy, 15 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0.0-5.0	5.0	0.9 0.9 1.1 0.9 0.9			(0.0 - 4.5') SAND, coarse, subrounded to subangular; little medium pebbles, subangular; little granules, subrounded to subangular; poorly sorted; dry; dark yellowish brown (10YR 4/6) NOTE: railroad ties and slag (metal chunks, etc.)		0.0-1.0' bgs (Sand) +1.0-4.0' bgs (2.0" PVC Casing) 1.0-3.0' bgs (Bentonite)
5 / -5	2	5.0-10.0	3.7	0.9 0.4 0.4 0.6 0.4			(4.5 - 10.0') SAND, medium; and SILT; little medium pebbles, subangular; trace large pebbles, subrounded to subangular; wet; very dark gray (2.5Y 3/1) NOTE: moderate odor, sheen and staining from 5.0-9.5' bgs NOTE: EOB at 10.0' bgs	▼	3.0-9.0' bgs (Sand Filter Pack) 4.0-9.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
10 / -10									
15 / -15									

Remarks: Hand Auger to 5.0' bgs; well screened 4.0-9.0' bgs

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Date Start: 12/10/2013
Date Finish: 12/10/2013
Drilling Company: Cascade Drilling
Driller's Name: John Roberts and Randy O'Hearn
Drilling Method: Rotasonic
Sampling Method: 5.0' Core Barrel
Rig Type: Rotasonic
Water Level Start (ft. bgs.): 5.0
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:

Borehole Depth (ft. bgs.): 10.0
Surface Elevation:

Descriptions By: Adam Richmond

Well/Boring ID: TW-70-107R-7

Client: RACER Buick City

Location: Flint, MI

Weather Conditions: Overcast and windy, 15 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0.0-5.0	5.0	1.4 1.4 0.9 1.4 4.8			(0.0 - 4.5') SAND, coarse, subrounded to subangular; little medium pebbles, subangular; little granules, subrounded to subangular; poorly sorted; dry; dark yellowish brown (10YR 4/6) NOTE: railroad ties and slag (metal chunks, etc.)		0.0-1.0' bgs (Sand) +1.0-4.0' bgs (2.0" PVC Casing) 1.0-3.0' bgs (Bentonite)
5 / -5	2	5.0-10.0	3.75	1.4 1.2 1.4 1.4 1.6			(4.5 - 10.0') SAND, medium; and SILT; little medium pebbles, subangular; trace large pebbles, subrounded to subangular; wet; very dark gray (2.5Y 3/1) NOTE: moderate odor, sheen and staining from 5.0-9.5' bgs NOTE: EOB at 10.0' bgs	▼	3.0-9.0' bgs (Sand Filter Pack) 4.0-9.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
10 / -10									
15 / -15									

Remarks: Hand Auger to 5.0' bgs; well screened 4.0-9.0' bgs

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Date Start: 2/25/14
Date Finish: 2/25/14
Drilling Company: Cascade Drilling
Driller's Name: John Roberts and J. Vanconont
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 5.0'
Water Level Finish (ft. btoc.):

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 14
Surface Elevation: NA

Descriptions By: Angela DeGrandis

Well/Boring ID: **TW-70-107R-08**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: 12 F, Overcast

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0.0-5.0	5.0'	0.1, 0.1, 0.1, 0.1, 0.1			(0.0 - 4.5') SAND, coarse, subrounded to subangular; little medium pebbles, subangular; little granules, subrounded to subangular; poorly sorted; dry; dark yellowish brown (10YR 4/6) NOTE: railroad ties and slag (metal chunks, etc.)		+2.0-3.0' bgs (2.0" PVC Casing) 0.0-2.0' bgs (Bentonite)
5 / -5	2	5.0-10.0	5.0'	0.2, 0.2, 0.2, 0.3, 0.3			(4.5 - 12.0') SAND, medium; and SILT; little medium pebbles, subangular; trace large pebbles, subrounded to subangular; wet; very dark gray (2.5Y 3/1) Note: Staining and strong odor from 8.0-12.0' bgs.	▼	2.0-13.0' bgs (Filter Pack) 3.0-13.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
10 / -10			4.0'	0.2, 0.2, 0.2, 0.2, 0.1			(12.0 - 13.0') SAND, medium, subround to subangular; trace silt; well sorted; moist; olive brown (2.5Y 4/6). (13.0 - 14.0') SILT, nonplastic, slow dilatancy; moist; medium stiff; dark gray (2.5Y 4/1). End of boring at 14.0' bgs.		
15 / -15									

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Remarks: bgs = below ground surface
btoc = below top of casing

Hand auger to 5.0' bgs

Date Start: 2/25/14
Date Finish: 2/25/14
Drilling Company: Cascade Drilling
Driller's Name: John Roberts and J. Vanconont
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 5.0'
Water Level Finish (ft. btoc.):

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 14
Surface Elevation: NA

Descriptions By: Angela DeGrandis

Well/Boring ID: **TW-70-107R-08**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: 12 F, Overcast

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
20 -20									

Remarks: bgs = below ground surface
btoc = below top of casing

Hand auger to 5.0' bgs

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Date Start: 2/24/14
Date Finish: 2/24/14
Drilling Company: Cascade
Driller's Name: J. Roberts, J. Vanconant
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 5.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 14.0'
Surface Elevation: NA

Descriptions By: Angela DeGrandis

Well/Boring ID: **TW-70-107R-09**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: 21 F, Cloudy

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0.0-4.0'	4.0'	0.0 0.0 0.1 0.0			(0.0 - 4.0') PEBBLES, medium to large; some sand, medium; subround to subangular; poorly sorted; dry; brown (10YR 4/6).		+2.0-3.0' bgs (2" Sch 40 PVC Well Casing) 0.0-2.0' bgs (Bentonite)
5 / -5	2	4.0-9.0'	5.0'	0.0 0.9 0.3 0.2 0.4			(4.0 - 13.0') SAND, fine, and PEBBLES, subround to subangular; some silt; poorly sorted; wet; dark gray (2.5Y 3/1). Note: Fill (brick, slag, metal). Note: Strong odor and staining from 4.0-13.0' bgs. Note: wet at 5.0' bgs.	▼	2.0-14.0' bgs (Filter Pack) 3.0-13.0' bgs (2" Sch 40 PVC Well Screen, 10 Slot)
10 / -10	3	9.0-14.0'	5.0'	0.3 0.1 0.1 0.0 0.1			Note: Sheen from 9.0-11.5' bgs. (13.0 - 14.0') SAND, fine; well sorted; moist; grayish brown (2.5Y 4/6).		
15 / -15							End of boring at 14.0' bgs.		
20 / -20									

Remarks:

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Date Start: 2/25/14
Date Finish: 2/25/14
Drilling Company: Cascade Drilling
Driller's Name: J. Roberts and J. Vanconant
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 5.0
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15
Surface Elevation: NA

Descriptions By: Angela DeGrandis

Well/Boring ID: **TW-70-107R-10**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: 12 F, Sunny

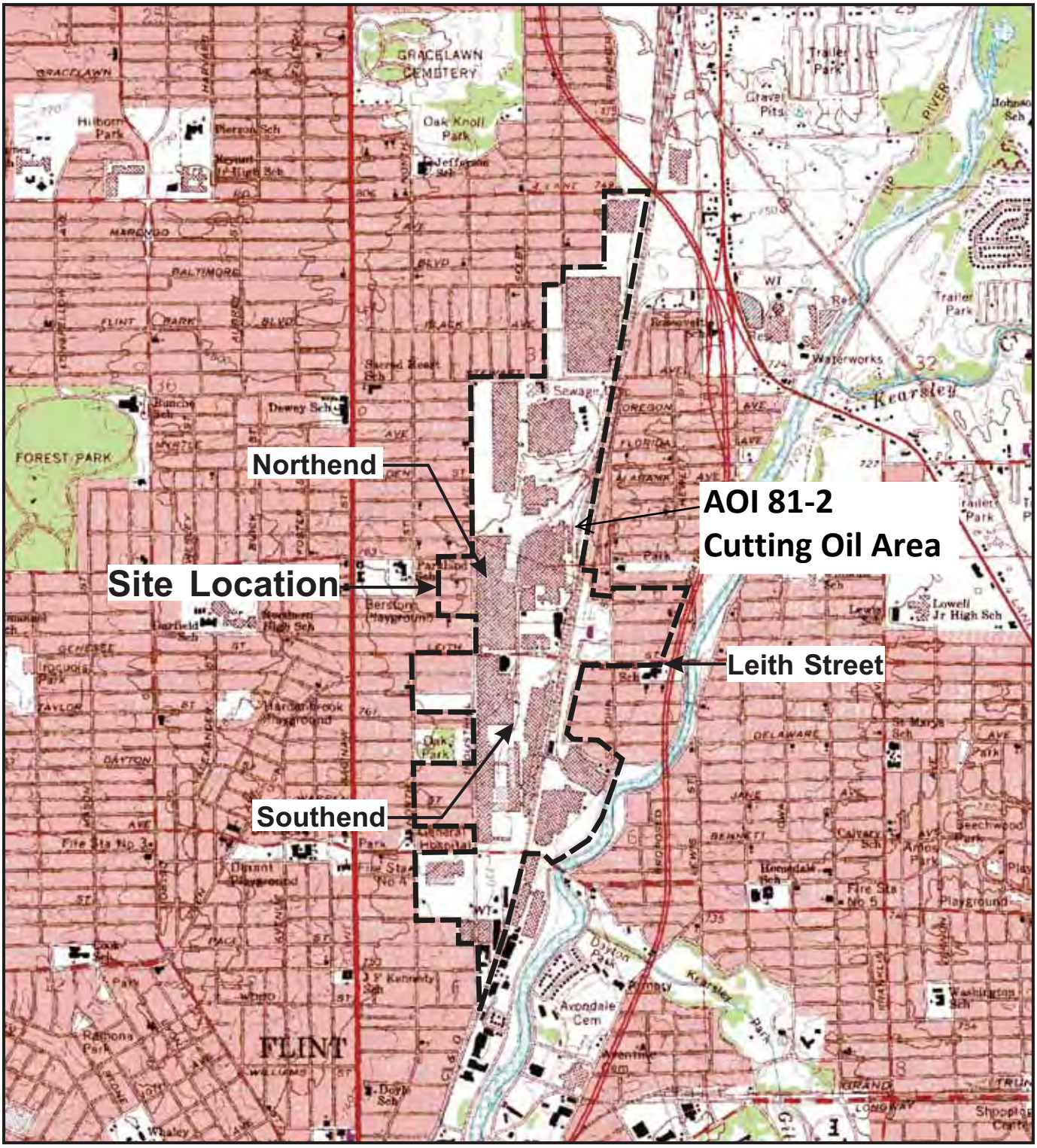
DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
	1	0.0-5.0'	5.0'	0.1			(0.0 - 1.0') PEBBLE, medium to large, subround to subangular; trace clay; poorly sorted; moist; gray (2.5Y 5/1)		+1.5-3.0' bgs (2" Sch 40 PVC Well Casing)
				0.1			(1.0 - 3.5') SAND, medium, subround to subangular; some small to medium pebbles; subround; poorly sorted; moist; dark brown (10YR 4/6).		0.0-2.0' bgs (Bentonite)
				0.0					
				0.0			(3.5 - 5.0') SAND, fine, and CLAY, medium plasticity, no dilatancy; poorly sorted; moist; dark olive brown (2.5Y 4/2)		
5 / -5				0.0					
	2	5.0-10.0'	5.0'	0.1			(5.0 - 12.5') SAND, fine, and PEBBLES; subround to subangular; little silt; trace clay; poorly sorted; wet; dark gray (2.5Y 3/1). Note: Fill debris (slag, brick, metal), strong odor, and staining.		2.0-15.0' bgs (Filter Pack)
				0.2					3.0-13.0' bgs (2" 10-Slot 2" PVC Well Screen)
				0.0					
				0.1					
10 / -10				0.0					
				0.0					
	3	10.0-15.0'	5.0'	0.0					
				NA			(12.5 - 15.0') CLAY, high plasticity, no dilatancy; stiff; dry to moist; gray (2.5Y 5/1).		
				NA					
15 / -15				NA					
							End of boring at 15.0' bgs.		

Remarks: HA to 5.0' bgs.

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Figures



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quad., Flint North, Mich. (1969, Photorevised 1975).

2000' 0 2000'

Approximate Scale: 1" = 2000'



Area Location

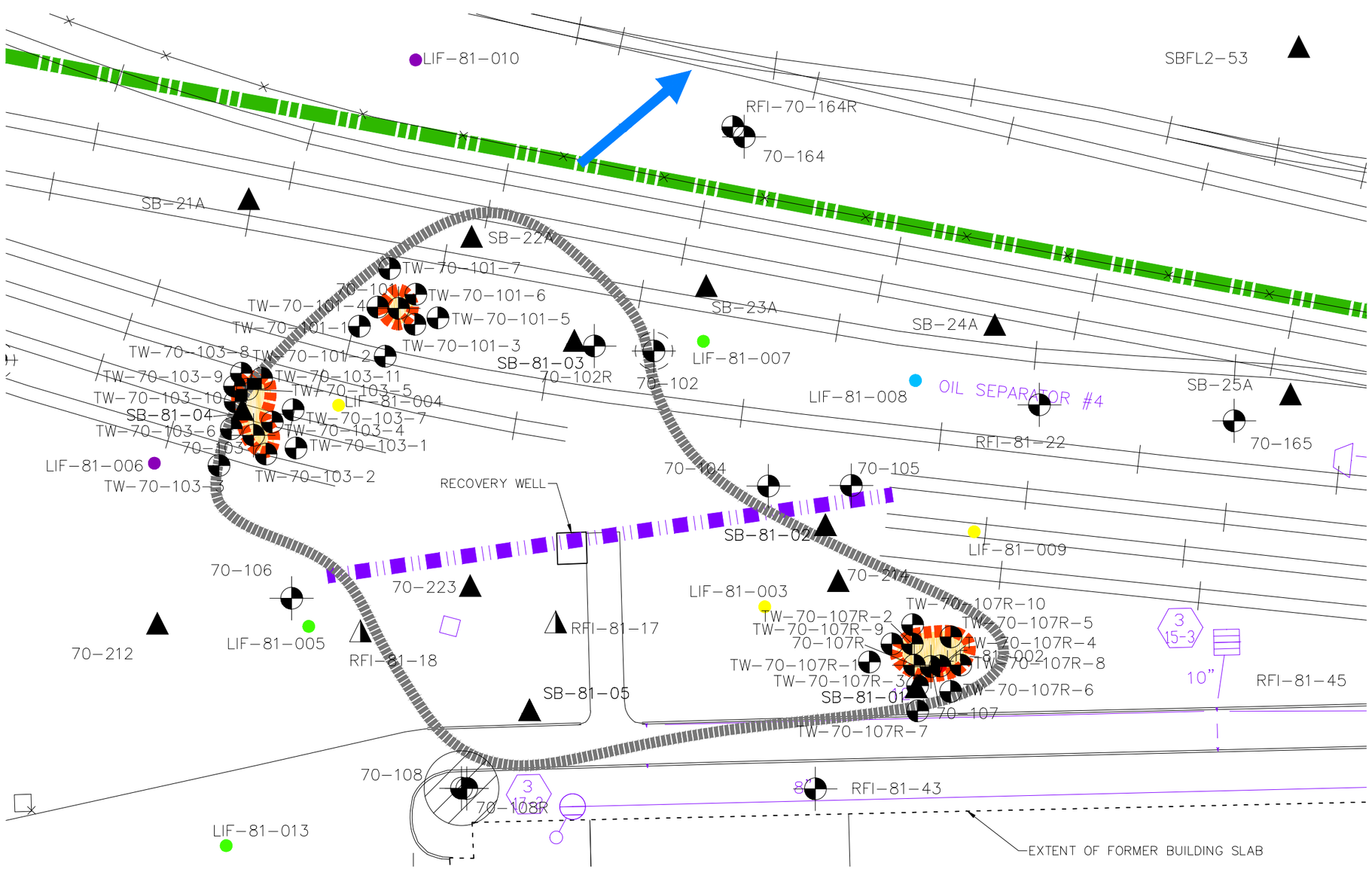
RACER TRUST
BUICK CITY, FLINT, MICHIGAN

SITE LOCATION MAP

ARCADIS

FIGURE
E1-1

03/12/2012 SYRACUSE, NY-ENV/CAD-141-DJHOWES
B0064410/2012/01202/CDR/64410N01.CDR



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- DEMOLISHED BUILDING
- APPROXIMATE LOCATION OF RECOVERY TRENCH
- STORM SEWER LINE
- GENERAL GROUNDWATER FLOW DIRECTION

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200
- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 60' 120'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 81-2
INVESTIGATION LOCATIONS AND LNAPL E□TENTS

ARCADIS

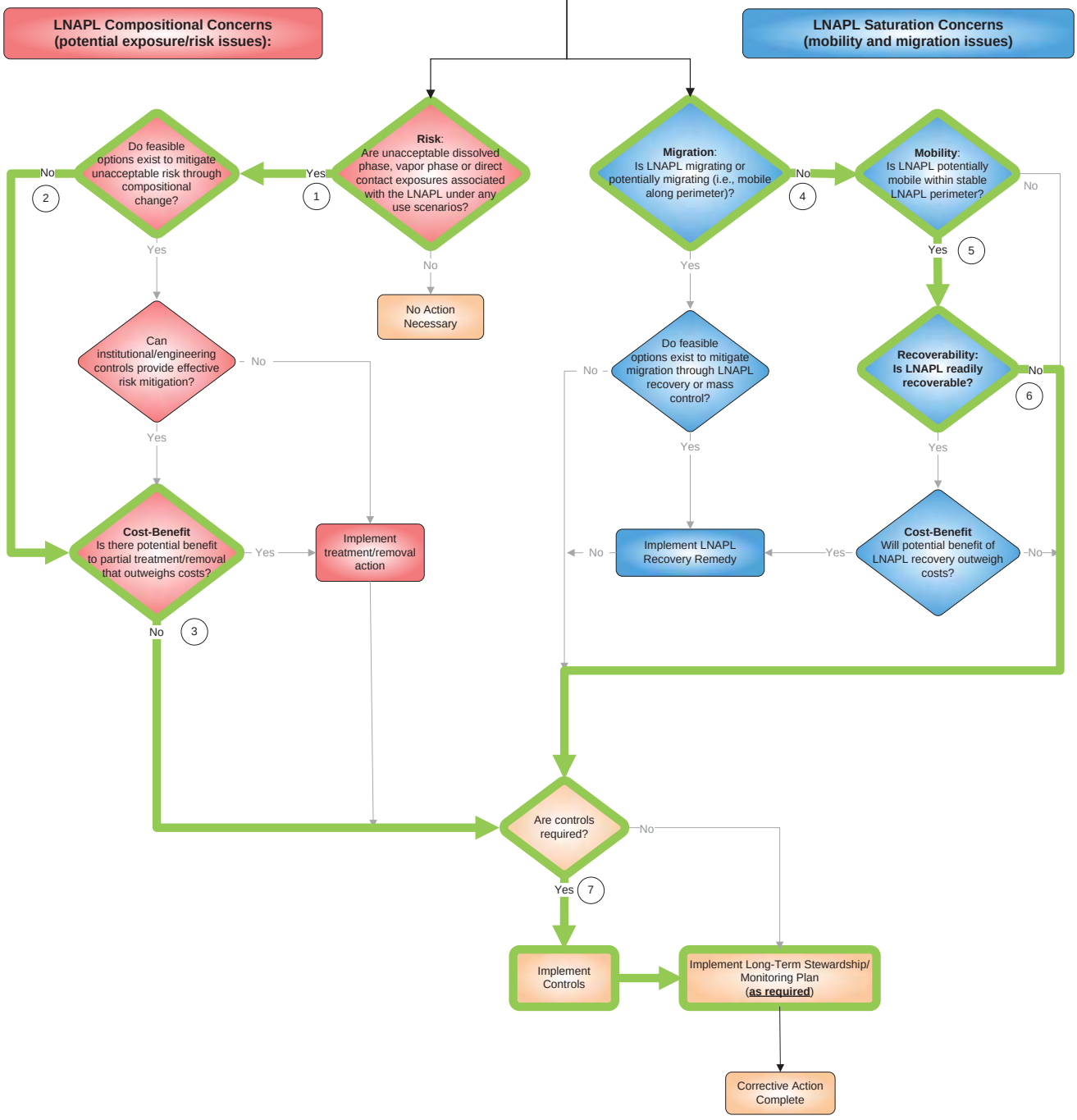
FIGURE
E1-2

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIVITIES\0064410\2014\002061\64410_AOI 81-2.dwg LAYOUT: E1-2 SAVED: 9/5/2014 10:15 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 9/5/2014 10:17 AM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME: ----

Attachment 2

LNAPL Remedial Decision Tree

Attachment 2 LNAPL Remedial Decision Tree Priority #6 – AOI 81-2 Cutting Oil Area



NOTES

(#) NOTES: See Page E2-2

Please see Appendix W for the LNAPL Remedial Decision Tree Template that lists additional sources of pertinent information used in the evaluation of the decision points (i.e. tables).

Attachment 2 Notes

Priority #6 - AOI 81-2 Cutting Oil LNAPL Area

Background: The area of interest (AOI 81-2) cutting oil light non-aqueous phase liquid (LNAPL) Area (AOI 81-2 LNAPL Area) is located in the central portion of the Northend of the Site, northeast of the former Factory 81 footprint. Historically, the Factory 81 area was primarily used as a gray iron foundry prior to 1981. From 1981 to 2010, the area was used for welding, machining, and assembly of torque converters. The AOI 81-2 LNAPL Area is located east of the former Factory 81, east of Buildings 70 and 73, which were historically used for storage of scrap materials (oil-saturated foundry sand and scrap metal). The presence of the AOI 81-2 LNAPL Area is presumably due to historical releases associated with operations in this area. There are no buildings within the AOI 81-2 LNAPL Area.

Geology and Hydrogeology: The soils at AOI 81-2 consists primarily of fine to medium sand to silty sands to a depth of 12.5 feet bgs that are underlain by silty clays/clay. Depth to groundwater (or LNAPL, where present) averages around 5 feet bgs, but has varied greatly and has been measured as shallow as 2.82 feet bgs and as deep as 12.65 feet bgs. Based on historic fluid level gauging data, groundwater flow in this portion of the Site is generally to the south-southeast.

LNAPL Characteristics: LIF logs in the AOI 81-2 LNAPL Area show evidence of LNAPL impacts as shallow as 3 feet bgs and as deep as 9 feet bgs. Historically, LNAPL has been gauged in five monitoring wells (70-101, 70-102R, 70-103, 70-107R, and 70-108) and the recovery well associated with the recovery trench. However, following 17 years of operation of the passive recovery trench, LNAPL has only been detected in monitoring wells 70-101, 70-103 and 70-107R and their associated temporary wells. Historically, at 70-103 thicknesses of up to 1.20 feet of product were measured; however, during recent years, minimal LNAPL (~0.05 feet) has been measured. At AOI 81-2, the LNAPL has a viscosity of 46 centipoise (cp), interfacial tension of 5.6 dynes/centimeter (cm), and a specific gravity of 0.91. The LNAPL also contains arsenic at concentrations that exceed RCRA toxicity characteristic criteria at one location (70-107R); however, TCLP analysis has not been conducted.

1) *Are unacceptable dissolved phase, vapor phase, or direct contact exposures associated with the LNAPL under any use scenarios?*

YES – The following potential risk/exposure concerns are associated with the AOI 81-2 LNAPL Area:

- Direct Contact: The concentrations of PCBs detected in LNAPL at the AOI 81-2 LNAPL Area range from 70 to 183 parts per million (ppm), which exceed the non-residential direct contact criteria (NDC) for soil. The shallowest LNAPL impacts are located approximately three feet below ground surface, and represent a potential concern for future construction or utility workers. Soil samples collected from borings located adjacent to monitoring wells containing LNAPL detected PCBs at concentrations less than the MDEQ non-residential direct contact criterion of 16 mg/kg. This exposure risk will be addressed by completing a targeted excavation as presented in the 761.61 (c) determination in **Attachment 3**.
- Potential Volatilization to Indoor Air Concerns for Future Structures: Theoretically, there is a potential unacceptable vapor phase exposure risk associated with methane generated during biodegradation of LNAPL for future redevelopment scenarios; however, this will be addressed by the proposed institutional controls.

2) *Do feasible options exist to mitigate unacceptable risk through compositional change?*

NO – The following is a general discussion regarding the feasibility of various compositional change remediation strategies for the AOI 81-2 LNAPL Area:

- Enhanced dissolution and recovery via surfactant or hot water flushing is not likely feasible. Bench-scale testing completed on similar LNAPL (hydraulic oil) at the Southend of the Site did not result in any increased recovery. In addition, it is not a viable option based on the presence of PCBs in the LNAPL and the proximity to the nearby storm sewer. The use of surfactant would increase mobility and therefore, likely increase the potential for PCB-impacted LNAPL infiltration into the storm sewer.
- LNAPL constituents at AOI 81-2 have low volatility rendering remedial technologies that rely on vapor-phase partitioning infeasible on a technical basis.
- In situ thermal remediation may be technically feasible for the area; however, it is not a viable option based on the presence of PCBs in the LNAPL and nearby City sewers. In addition, it does not represent an economically feasible remedial alternative given the relatively large area that would need to be addressed in order to avoid the generation of dioxins.

Attachment 2 Notes

Priority #6 - AOI 81-2 Cutting Oil LNAPL Area

- Targeted in-situ soil mixing/land farming would use biological additives to address the petroleum constituents; however, the PCBs would remain. In addition, due to the proximity of the AOI 81-2 LNAPL Area to the Site storm sewers, there is a potential for the additives to enter the sewer and be discharged to the Flint River.

3) Is there a potential benefit to partial treatment/removal that outweighs costs?

NO – The compositional concerns can be addressed as follows:

- Potential Volatilization to Indoor Air - Based on the current understanding of risk conditions, the potential future volatilization to indoor air risk can be effectively mitigated through institutional controls.
- Direct contact – The direct contact concerns associated with PCBs in LNAPL will be addressed by completing targeted excavations as presented in **Attachment 3**. Soil samples collected from borings located adjacent to monitoring wells containing LNAPL detected PCBs at concentrations less than the MDEQ non-residential direct contact criterion of 16 mg/kg.

Additionally, an LNAPL recovery system consisting of a recovery trench and well operated in this area for approximately 17 years; therefore, partial and effective LNAPL removal has already been completed and a transition to institutional controls is now appropriate.

4) Is LNAPL migrating or potentially migrating (i.e. mobile along the perimeter)?

NO – The AOI 81-2 LNAPL Area appears to be stable. This finding is supported by the following lines of evidence:

- Well Gauging Data: Sentinel wells located around the periphery of the AOI 81-2 LNAPL Area have remained free of LNAPL since monitoring began approximately 10 years ago.
- Age of LNAPL Release: The AOI 81-2 LNAPL Area was identified in approximately 1995. Operations began in this portion of the Site in the 1950's and ceased in this portion of the Site ceased in 2010. LNAPL bodies typically stabilize within 2 to 5 years after a release has been stopped (ITRC, 2012).

5) *Is LNAPL mobile within the stable LNAPL perimeter?*

YES – LNAPL is currently present at three monitoring wells in the AOI 81-2 area indicating that the LNAPL is mobile within the stable perimeter.

6) Is LNAPL readily recoverable?

NO - The results of historic interim measures (IM) indicate that in the past LNAPL has been recovered using a recovery trench and well, and by bailing. However it is uncertain whether future LNAPL recovery is practical. Although LNAPL was successfully recovered during the IM, LNAPL transmissivity quantified at monitoring well 70-107R was 0.2 square feet per day (ft^2/day), which is at the lower end of the minimum range suggested by ITRC and below the MDEQ standard threshold value.

7) Are controls required?

YES – The following AOI-specific institutional are proposed, in addition to the Site-wide institutional controls, for the AOI 81-2 LNAPL Area to limit future exposure:

- Prohibit any excavation or other intrusive activity that could affect the integrity of the surface cover that is present (as shown on **Figure E3-2**) to prevent direct contact with contaminated material except with using appropriate health and safety measures during short-term construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the surface cover, that could affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original barrier within a reasonable timeframe. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the NREPA.
- Notify future owners of the presence of PCBs, and
- Restrict the area containing PCB-impacted LNAPL to low occupancy (as shown on **Figure E3-2**).

Attachment 3

761.61(c) Risk Based Cleanup and Disposal Request

Priority #6 – AOI 81-2 Cutting Oil LNAPL Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 3 – 761.61(c) Risk Based Cleanup and Disposal Request

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This attachment presents the information required to support a 761.71(c) determination for the Area of Interest (AOI) 81-2 Cutting Oil light non-aqueous plume liquid (LNAPL) Area (AOI 81-2 LNAPL Area).

1. Area Background and History

The AOI 81-2 LNAPL Area is located at the Northend of the Site in the former Factory 81 area and is likely associated with historic releases associated with operations. LNAPL was identified at AOI 81-2 during the 1995 Fenceline Investigation. A LNAPL recovery trench and well were installed in 1996 and operated until 2010. The total amount of LNAPL recovered by this trench is unknown. By 2010, the system became ineffective in removing significant quantities of LNAPL due to the lack of recoverable LNAPL within the capture zone and operation of the system was discontinued.

Historically, LNAPL has been gauged at AOI 81-2 in five monitoring wells (70-101, 70-102R, 70-103, 70-107R, 70-108) and the recovery well associated with the recovery trench. However, following 17 years of operation of the passive recovery trench at AOI 81-2, LNAPL has only been detected in 70-101, 70-103 and 70-107R, and their associated temporary wells (discussed below). During recent years minimal product (~0.05 feet) has been detected at monitoring well 70-103.

2. Summary of SOPs and Investigation Results

AOI 81-2 has been previously investigated as part of the Site's RCRA Facility Investigation (RFI) activities. The RFI Work Plan presents the standard operating procedures, field sampling procedures, quality assurance/quality control procedures, etc. used during the investigation. The results of the investigations (including laboratory analytical reports) were presented in the RFI Phase I and RFI Phase II reports (**Appendix Y**).

3. Nature of Contamination

At AOI 81-2, samples of LNAPL, soil, and groundwater have been analyzed for polychlorinated biphenyls (PCBs). Below is a brief summary of results.

- LNAPL samples from three monitoring wells (70-101, 70-105, and 70-107R) were submitted for PCB analysis. PCBs were detected at concentrations ranging from 70 part per million (ppm) to 110 ppm.
- LNAPL samples collected from three temporary wells also detected PCBs: TW-70-103-5 (83 ppm), TW-70-107R-2 (90 ppm), and TW-70-107R-4 (183 ppm)
- Ninety-eighty soil samples collected from soil borings in the AOI 81-2 Area were analyzed for PCBs. Forty-seven of the samples detected PCBs and five samples detected PCBs at levels less than 1 ppm. The maximum detection of PCBs in soil was 11 ppm.
- In surface soils (0 to 2 ft below ground surface [bgs]) PCBs were detected at concentrations greater than 1 ppm, in the vicinity of monitoring wells 70-101, 70-103 and RFI-81-22, as well as soil borings SB-81-02 and SB-81-04. The maximum detection of PCBs in surface soils was less than 5 ppm.
- One groundwater sample collected from a well in the AOI 81-2 area was analyzed for PCBs. PCBs were not detected in the groundwater sample.

4. Extent of Impacts

At AOI 81-2, PCB impacts are primarily associated with the LNAPL. **Figure E3-1** shows the approximate current extent of LNAPL. As discussed above, LNAPL was historically gauged in five monitoring wells in the AOI 81-2 LNAPL Area and is currently detected in three monitoring wells (701-01, 701-03, and 701-107R) and four temporary wells (TW-70-107R-2, TW-70-107R-4, TW-70-107R5, and TW-70-103-5). The concentrations of PCBs detected in the LNAPL samples vary from 70 to 183 ppm within the AOI 81-2 LNAPL area.

In order to further delineate the PCB impacts at AOI 81-2, five soil borings (SB-81-01 through SB-81-05) were installed adjacent to monitoring wells 70-107R, 70-105, 70-102, 70-103, and 70-108, respectively, to vertically characterize PCB impacts to soils. Five soil samples were collected from each boring from 0 to 11 feet bgs and submitted for PCB analysis. The soil samples collected from borings SB-81-01, SB-81-03, and SB-81-05 did not detect PCBs. Three soil samples collected from SB-81-02 detected PCBs at concentrations ranging from 3 to 5 ppm and four soil samples collected from SB-81-04 detected PCBs at concentrations ranging from 3 to 10 ppm.

To further delineate the concentrations of PCBs in LNAPL at monitoring wells 70-101, 70-103, and 70-107R, 28 temporary wells (TW-70-101-1 through TW-70-101-7, TW-70-103-1 through TW-70-103-11, and TW-70-107R-1 through TW-70-107R-10) were installed. Soil samples were collected from 25 of the temporary well locations and submitted for PCB analysis to vertically profile the PCB impacts in soil. A total of 68 soil samples were collected from the temporary wells. PCBs were detected in 32 of the soil samples at concentrations ranging from 0.3 to 11 ppm. To date, LNAPL has been detected in four of the

28 temporary wells (TW-70-107R-2, TW-70-107R-4, TW-70-107R-5 and TW70-103-5) installed at AOI 81-2. LNAPL samples from TW-70-103-5, TW-70-107R-2, and TW-70-107R-4 were analyzed for PCBs. The analytical results detected PCBs at concentrations ranging from 83 to 183 ppm. The temporary well data further suggest that the remaining LNAPL at AOI 81-2 is limited.

Based on the PCB soil delineation data, well gauging data and the LIF investigation, the PCB impacts at the AOI 81-2 LNAPL Area range from 0 to 9 feet bgs. The locations of the soil borings and temporary wells are presented on **Figure E3-1**.

5. Risk-Based Procedure

Targeted excavation is proposed to address PCB impacts at 70-101, 70-103, and 70-107R. The LNAPL impacts at 70-101 are delineated by TW-70-101-3, TW-70-101-4, and TW-70-101-6, shown on **Figure E3-2**. The LNAPL impacts at 70-103 are delineated by TW-70-103-1 through TW-70-103-4 and TW-70-103-08 through TW-70-103-11. The LNAPL impacts are partially delineated at 70-107R. LNAPL has been detected intermittently at three temporary wells (TW-70-107R-2, TW-70-107R-4, and TW-70-107R-5). These wells will continue to be monitored and additional delineation wells will be installed as necessary. The scope of work for additional delineation will be included in a remedy implementation work plan. The work plan will include the detailed scope for the excavation activities; however a brief summary of the plan is provided below:

- Complete investigation work necessary to refine the extents of the excavation.
- Prior to excavation, LNAPL will be removed from wells in the area of excavation to minimize accumulation during excavation.
- Complete excavation to the water table. It is planned that the excavation will be completed when the water table is at its lowest to maximize removal of impacted soils.
- LNAPL-impacted soils removed during remediation activities completed at AOI 81-2 will be characterized and disposed of using “as found” concentrations.

Following completion of the targeted excavation, a portion of the AOI 81-2 LNAPL Area will be restricted to low occupancy use (**Figure E3-2**). Additional deed restrictions placed on the AOI 81-2 LNAPL Area to protect future users from PCB impacts will include the Site-wide deed restrictions as noted in the main report and these AOI-specific deed restrictions:

- Notification to future owners of the presence of PCBs , and
- Restrict the area containing PCB-impacted LNAPL or soils to low occupancy (as shown on **Figure E3- 2**).

6. Evaluation of Alternatives

The following technologies were evaluated to address LNAPL at AOI 81-2:

- Enhanced dissolution and recovery via surfactant or hot water flushing is not likely feasible. Bench-scale testing completed on similar LNAPL (hydraulic oil) at the Southend of the Site did not result in any increased recovery. In addition, it is not a viable option based on the presence of PCBs in the LNAPL and the proximity to the nearby storm sewer. The use of surfactant would increase mobility and therefore, likely increase the potential for PCB-impacted LNAPL infiltration into the storm sewer.

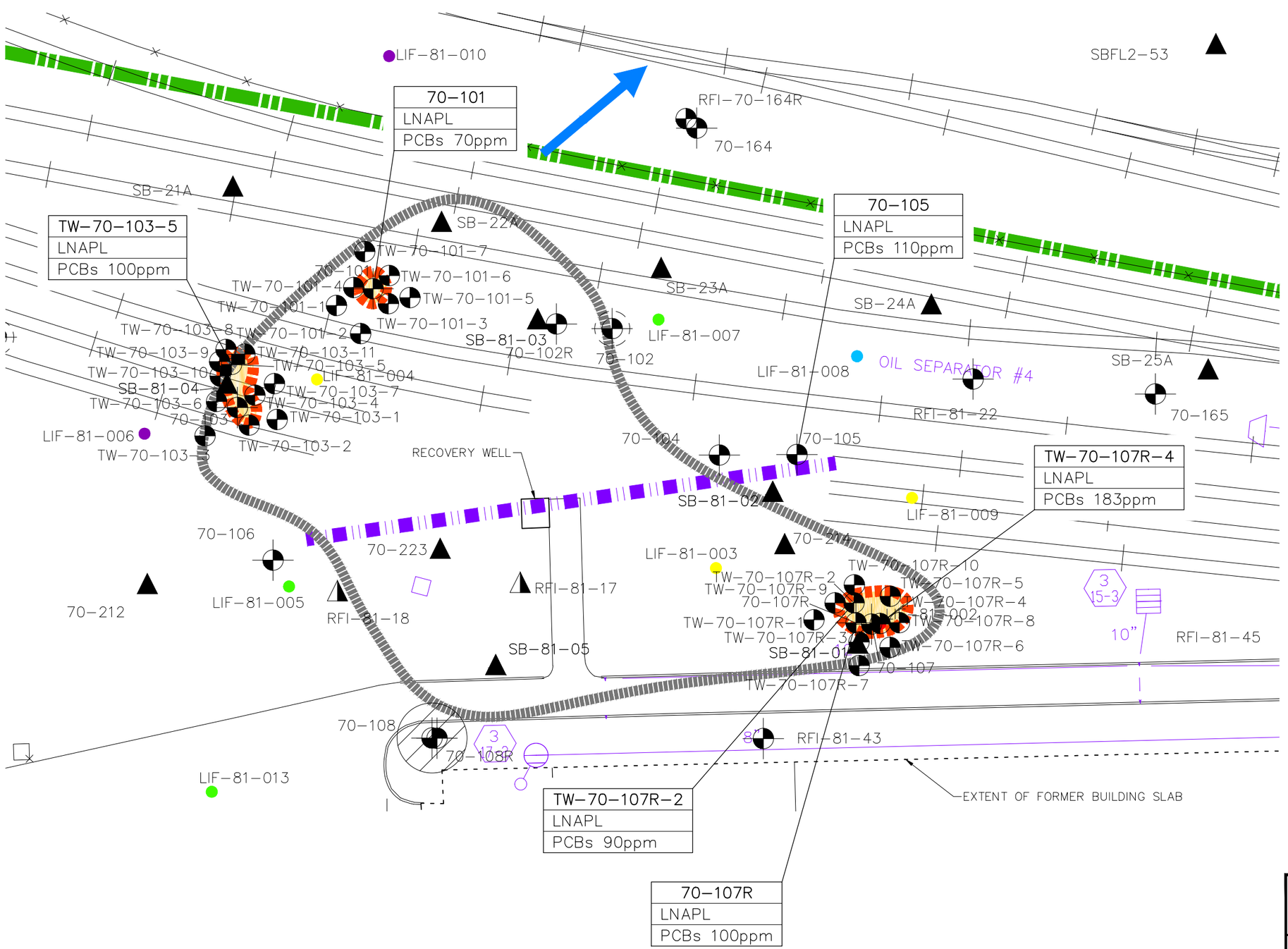
- Targeted in-situ soil mixing/land farming would use biological additives to address the petroleum constituents; however, the PCBs would remain. In addition, due to the proximity of the AOI 81-2 LNAPL Area to the Site storm sewers there is a potential for the additives to enter the sewer and be discharged to the Flint River.

- In situ thermal remediation may be technically feasible for the area; however, it is not a viable option based on the presence of PCBs in the LNAPL and nearby City sewers. In addition, it does not represent an economically feasible remedial alternative given the relatively large area that would need to be addressed in order to avoid the generation of dioxins.

- AOI 82-1 LNAPL constituents (including PCBs) have low volatility rendering remedial technologies that rely on vapor-phase partitioning infeasible on a technical basis.

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Figures



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- TEMPORARY WELL LOCATION
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- DEMOLISHED BUILDING
- APPROXIMATE LOCATION OF RECOVERY TRENCH
- STORM SEWER LINE
- GENERAL GROUNDWATER FLOW DIRECTION

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200
- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.
3. SOIL SAMPLES COLLECTED IN THE AOI 81–2 LNAPL DID NOT DETECT PCBs ABOVE MDEQ CRITERIA. ALL DETECTED CONCENTRATIONS WERE LESS THAN 11 PPM.

0 60' 120'
APPROXIMATE SCALE IN FEET

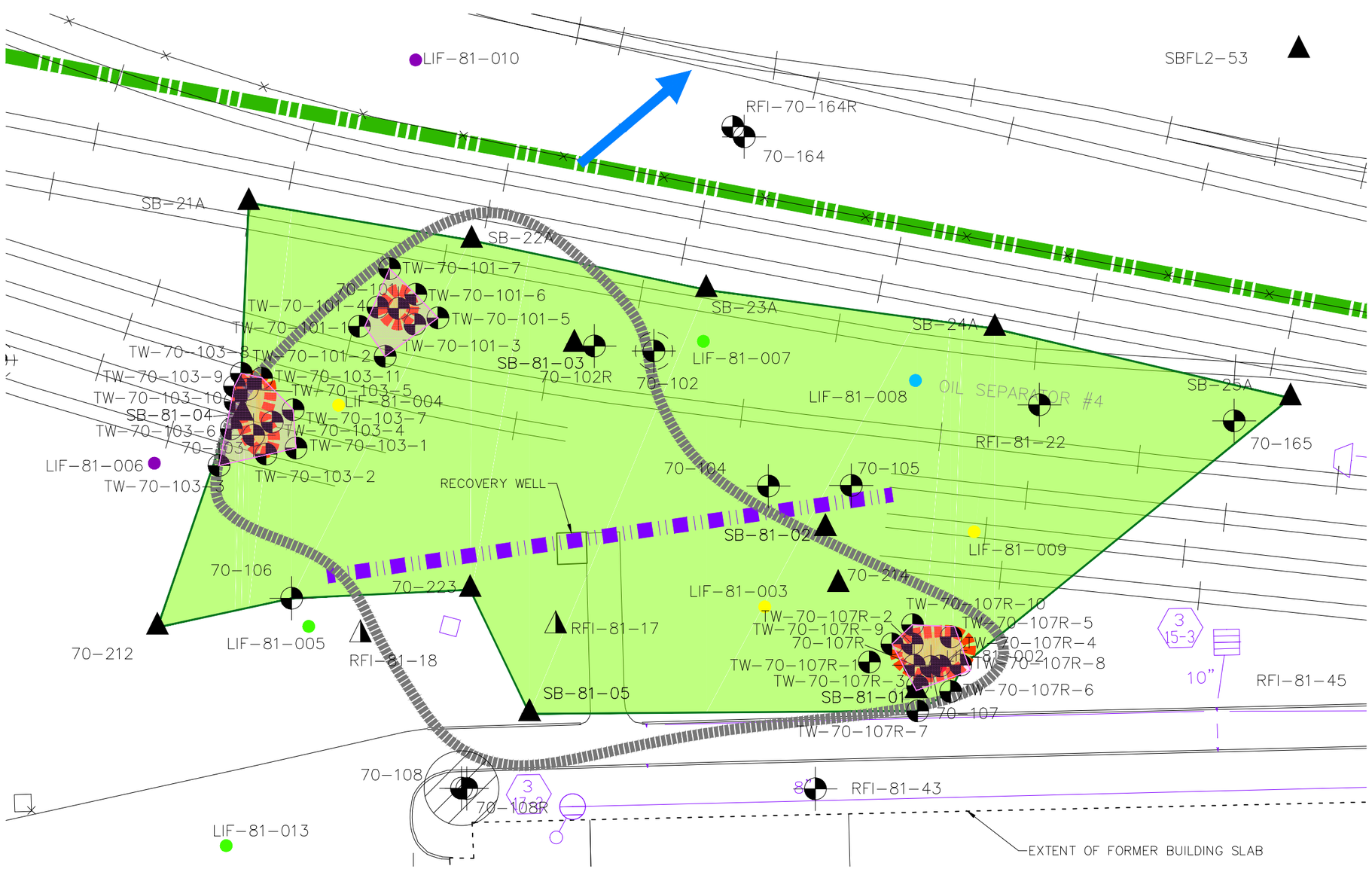
RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 81-2
E□TENT OF PCB IMPACTS

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FIGURE
E3-1

CITY: SYRACUSE DV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\06410\2014\60206\B6410_AOI 81-2.dwg LAYOUT: E3-1 SAVED: 9/5/2014 10:15 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ----
IMAGES: PROJECTNAME: ---- PLOTSTYLETABLE: ---- PLOTTED: 9/5/2014 10:18 AM BY: SANCHEZ, ADRIAN



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- TEMPORARY WELL LOCATION
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- DEMOLISHED BUILDING
- PROPOSED AREA RESTRICTED TO LOW OCCUPANCY
- PROPOSED AREA OF EXCAVATION
- APPROXIMATE LOCATION OF RECOVERY TRENCH
- STORM SEWER LINE
- GENERAL GROUNDWATER FLOW DIRECTION

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200
- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.
3. THE EXTENT OF THE EXCAVATIONS WILL BE REFINED FOLLOWING ADDITIONAL DELINEATION ACTIVITIES.

0 60' 120'

APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 81-2
E□TENT OF E□CAVATION AND LOW OCCUPANCY RESTRICTIONS

ARCADIS

FIGURE
E3-2

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\0064410\2014\00206\B64410_AOI 81-2.dwg LAYOUT: E3-2 SAVED: 9/5/2014 10:15 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ----
IMAGES: PROJECTNAME: ---- PLOTSTYLETABLE: ---- PLOTTED: 9/5/2014 10:18 AM BY: SANCHEZ, ADRIAN

Attachment 4

Remedy Recommendation

Priority #6 - AOI 81-2 Cutting Oil LNAPL Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 4 – Recommended Remedy

This attachment presents the recommended remedies for the area of interest (AOI) 81-2 Cutting Oil light non-aqueous phase liquid (LNAPL) Area (AOI 81-2 LNAPL Area).

1. Compositional and Saturation Concerns

The LNAPL Decision Tree Analysis presented in **Attachment 2** identified direct contact for PCBs and potential volatilization to indoor air associated with methane generated during the biodegradation of LNAPL at AOI 81-2 LNAPL Area as compositional concerns and mobility as a saturation concern.

2. Remedy Recommendation Rationale

The remedies recommended to address the compositional and saturation concerns associated with the AOI 81-2 LNAPL Area are targeted excavations and institutional controls, which are discussed in detail in Section 3. The rationale for this selection is detailed below:

- Prior to and during the RFI PCBs were detected in three LNAPL samples at concentrations greater than the Toxic Substance Control Act (TSCA) level of 50 ppm and nonresidential direct contact criterion (NDC) of 16 ppm. PCBs were detected at monitoring well 70-101 (70 ppm), 70-105 (110 ppm), and 70-107R (100 ppm).
- Temporary wells were installed and soil samples were collected to delineate impacts at 70-101, 70-103, and 70-107R. The concentrations of PCBs in soil samples ranged from non-detect to 11 parts per million (ppm). LNAPL was detected in four temporary wells and samples were able to be collected from three location. The concentrations of PCBs in LNAPL are TW-70-103-05 (83 ppm) TW-70-107R-02 (90 ppm), and TW-70-107R-04 (183 ppm).
- PCBs have been detected in surface soil samples (0 to 2 ft bgs) in the vicinity of monitoring wells 70-101, 70-103, and RFI-81-22 and soil borings SB-81-02 and SB-81-04 at concentrations less than 5 ppm.

- Based on the current understanding of risk conditions, the potential volatilization to indoor air risk for future structures due to the biodegradation of LNAPL generating methane can be effectively mitigated through Site-wide institutional controls.
- The AOI 81-2 is downgradient of the Outfall 003 storm sewer; therefore, the GSI pathway is not applicable.
- Although the LNAPL at AOI 81-2 is mobile within the stable perimeter, transmissivity testing indicates that recovery is likely not practical. The LNAPL transmissivity quantified at 70-107R was 0.2 ft^2/day, which is greater than the lower Interstate Technology & Regulatory Council (ITRC) threshold value, but below the Michigan Department of Environmental Quality (MDEQ) threshold value for recovery which indicates that LNAPL recovery is not likely practicable. Further, LNAPL recovery at 70-107R would not decrease the risk associated with the AOI 8-2 LNAPL Area.
- Historically, LNAPL has been gauged in wells five monitoring wells (70-101, 70-102R, 70-103, 70-107R, and 70-108) and the recovery well associated with the recovery trench. However, following 17 years of operation of the passive recovery trench, LNAPL has only been detected in 70-101, 70-103 and 70-107R. Therefore, partial and effective LNAPL removal has already been completed and a transition to institutional controls is now appropriate.
- NSZD results show that LNAPL in the western section of the AOI 81-2 LNAPL Area is being depleted at a rate of 3,448 gallons per acre per year and in the eastern section of the AOI 81-2 LNAPL Area at a rate of 176 gallons per acre per year.

3. AOI 81-2 Remedies

This section summarizes the completed and proposed remedies to address the impacts at AOI 81-2.

3.1 Completed Interim Measures

An LNAPL monitoring and bailing program operated for several years removing the product from four monitoring wells located with the AOI 81-2 LNAPL Area. Groundwater and LNAPL recovery trenches were also installed at the northeast corner of Factory 81 during the 1995 Fenceline Investigation. The total amount of LNAPL recovered by this trench is unknown. By 2010 the system became ineffective in removing significant quantities of LNAPL due to the lack of recoverable LNAPL within the capture zone, and operation of the system was discontinued. The partial and effective removal of product has been completed in this area and is considered a component of the remedy.

3.2 Additional Remedy Recommendations

The remedies recommended to address the compositional and saturation concerns associated with AOI 81-2 LNAPL Area are historic IMs, targeted excavation and institutional controls. These remedies will remove PCB impacts in the vicinity of monitoring wells 70-101, 70-103, and 70-107R in the

short term and will prevent future worker exposure to soil and LNAPL impacts in the long term.

3.2.1 Targeted Excavation

In order to address the risks associated with the LNAPL containing PCBs at concentrations greater than 25 ppm, targeted excavations of LNAPL impacted soils are recommended. As discussed in **Attachment 3**, the targeted excavations are proposed to address the PCB impacts at 70-101, 70-103, and 70-107R, as shown on **Figure E3-2**. Additional delineation will be completed to further refine the extents prior to excavation activities.

As part of a self-implementing cleanup under 40 CFR Part 761.61(c), soils containing PCBs with concentrations exceeding 25 ppm will be excavated and disposed of properly using "as found" concentrations. The excavations will take place when the water table is at its lowest to maximize removal of impacted soils.

3.2.2 Surface Soil Impacts

The remedy to address surface soil impacts (concentrations of PCBs less than 16 ppm) will be selected on a case by case basis once the extent of impacts has been defined. In the areas of the targeted excavations, the surface soil impacts may be included in the excavation area. Alternately, surface soil impacts may also be addressed by installing a cover over the impacted area, or restricting the area to low occupancy use.

3.2.3 Institutional Controls

The following AOI-specific institutional controls, in addition to the Site-wide institutional controls, will be necessary to limit potential for future exposure:

- Prohibit any excavation or other intrusive activity that could affect the integrity of the surface cover that is present (**Figure E3-2**) to prevent direct contact with contaminated material except with using appropriate health and safety measures during short-term construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the surface cover, that could affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original barrier within a reasonable timeframe. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the NREPA.
- Notify the future property owners of the presence of PCBs, and
- Restrict the area shown on **Figure E3-2** to low occupancy based on the presence of PCBs.

Appendix E - Addendum No. 1

February 15, 2016

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MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER

From:
Micki M. Maki

Date:
February 15, 2016

ARCADIS Project No.:
B0064410.2016

Subject:
Remedy Recommendation Report
Appendix E - AOI 81-2 Cutting Oil Area - Addendum No.1
Summary of Additional Investigations
RACER Buick City Site, Flint, Michigan

Introduction

This Addendum No. 1 to Remedy Recommendation Report Appendix E presents a summary of the investigation data collected at the AOI 81-2 Cutting Oil Area from March 19, 2014 through December 31, 2015 at the Buick City Site (Site) located in Flint, Michigan.

Summary of Investigation Activities

Additional investigation activities were completed at AOI 81-2 to delineate the extent of LNAPL and refine the extent of polychlorinated biphenyl (PCB) impacts identified at the monitoring well 70-101, 70-103, and 70-107R Areas; to refine the extent of PCB impacts in surface soils at the 70-101, 70-103, RFI-81-22, SB-81-02, and SB-81-04 areas; and to characterize methane concentrations in soil gas at the property boundary (**Figures E-A1-1**).

70-101 Area

At the 70-101 area four temporary wells (TW-70-101-8 through TW-70-101-10 and TW-70-101-16) were installed to refine the LNAPL delineation (**Figure E-A1-1**). The four temporary wells were completed to a depth of approximately 10 feet below ground surface (ft bgs). Soil samples were collected at each temporary well from 0 to 2, 3 to 5, and 7 to 9 ft bgs and submitted to the laboratory for PCB analysis. Three additional wells (TW-70-101-17 through TW-70-101-19) were attempted to delineate LNAPL extents near the property boundary; however, shallow refusal was encountered in this area and wells were not installed.

In addition ten shallow soil borings (SB-70-101-11 through SB-70-101-15, and SB-70-101-17 through SB-70-101-21) were completed to delineate PCB impacts in surface soils in the 70-101 area (**Figure E-A1-1**). Shallow soil samples were also collected from TW-70-101-17 and TW-70-101-19, prior to meeting refusal. Soil samples were collected at each boring from 0 to 2 and 2 to 4 ft bgs and submitted to the laboratory for analysis of PCBs.

LNAPL samples were collected from TW-70-101-2, TW-70-101-7, and TW-70-101-8 and submitted to the laboratory for PCB analysis.

70-103 Area

At the 70-103 area eight additional temporary wells (TW-70-103-12 through TW-70-103-17 TW-70-103-19, and TW-701-03-20) were installed to refine the LNAPL delineation (**Figure E-A1-1**). The temporary wells were completed to a depth of approximately 10 feet bgs. Soil samples were collected at each temporary well location from 0 to 2, 3 to 5, and 7 to 9 ft bgs and submitted to the laboratory for PCB analysis.

In addition four shallow soil borings (SB-70-103-18 through SB-70-103-21) were completed to delineate PCB impacts in surface soils in the 70-103 area (**Figure E-A1-1**). Soil samples were collected at each boring from 0 to 2 and 2 to 4 ft bgs and submitted to the laboratory for analysis of PCBs.

In addition, LNAPL samples were collected from monitoring wells 70-103 and TW-70-103-08 and submitted to the laboratory for PCB analysis.

70-107R Area

At the 70-107 area two additional temporary wells (TW-70-107R-11 and TW-70-107R-12) were completed to refine the LNAPL delineation (**Figure E-A1-1**). The wells were completed to a depth of approximately 10 feet bgs. Soil samples were collected from each temporary well location from 0 to 2, 3 to 5, and 7 to 9 ft bgs and submitted to the laboratory for PCB analysis.

In addition three shallow soil borings (SB-70-107R-13 through SB-70-107R-15) were completed to delineate PCB impacts in surface soils in the 70-107 area (**Figure E-A1-1**). Soil samples were collected at each boring from 0 to 2 and 2 to 4 ft bgs and submitted to the laboratory for analysis of PCBs.

SB-81-01 Area

At the SB-81-01 area one soil boring (SB-81-10) was completed to delineate PCB impacts in surface soils. The soil boring was completed 10 feet north of SB-81-01 (**Figure E-A1-1**). Soil samples were collected from 0 to 2 and 2 to 4 ft bgs and submitted to the laboratory for PCB analysis.

SB-81-02 Area

At the SB-81-02 area four step-out soil borings (SB-81-11 through SB-81-14) were completed to delineate PCB impacts in surface soils. The step-out borings were completed 10 feet in each direction from SB-81-02 (**Figure E-A1-2**). Soil samples were collected at each boring from the 0 to 2 and 2 to 4 ft bgs interval and submitted to the laboratory for PCB analysis.

RFI-81-22 Area

At the RFI-81-22 area four step-out soil borings (SB-81-06 through SB-81-09) were completed to delineate PCB impacts in surface soils. The step-out borings were completed 10 feet in each direction from RFI-81-22 (**Figure E-A1-1**). Soil samples were collected at each soil boring from the 0 to 2 and 2 to 4 ft bgs interval and submitted to the laboratory for PCB analysis.

Soil Gas Evaluation

Two soil gas sampling probes (SGP-81-01 and SGP-81-02) were installed to evaluate methane along the property boundary adjacent to the AOI 81-2 LNAPL Areas. Two rounds of soil gas samples were collected

from each probe (in June and November 2015) and submitted to the laboratory for methane analysis. In addition the second round of samples were also analyzed for volatile organic compounds (VOCs).

Summary of Data Evaluation

70-101 Area

At the 70-101 Area a total of 35 soil samples were submitted for PCB analysis. PCBs were detected in 16 samples collected from 12 locations. Where detected PCB concentrations in soil samples ranged from 0.12 milligrams per kilogram (mg/kg) to 15 mg/kg (**Table E-A1-1**).

Temporary wells TW-70-101-8 through TW-70-101-10 and TW-70-101-16 (**Figure E-A1-1**) were gauged several times in 2014 and 2015. LNAPL was only detected at a thickness greater than 0.1 inches at TW-70-101-8. LNAPL samples were collected from previously installed wells TW-70-101-2, TW-70-101-7, as well as TW-70-101-8 and submitted to the laboratory for PCB analysis. PCBS were detected in the LNAPL samples at concentrations of 67 mg/kg at TW-70-101-2, 81 mg/kg at TW-70-101-7, and 9 mg/kg at TW-70-101-8 (**Table E-A1-3**).

70-103 Area

At the 70-103 Area a total of 32 soil samples were submitted for PCB analysis. PCBs were detected in 17 soil samples collected from nine locations. Where detected PCB concentrations of PCBs in soil samples ranged from 0.2 mg/kg to 7.8 mg/kg (**Table E-A1-1**).

Temporary wells TW-70-103-12 through TW-70-103-17 TW-70-103-19, and TW-701-03-20 (**Figure E-A1-1**) were gauged several times in 2014 and 2015. LNAPL was only detected at a thickness greater than 0.1 inches at TW-70-103-13. LNAPL samples were collected from previously installed wells 70-103 and TW-70-103-08 and submitted to the laboratory for PCB analysis. PCBS were detected in the LNAPL samples at concentrations of 18 mg/kg at 70-103 and 71 mg/kg at TW-70-103-8 (**Table E-A1-3**).

70-107R Area

At the 70-107R Area a total of 11 soil samples were submitted for PCB analysis. PCBs were detected at in six samples collected from five locations. Where detected PCB concentrations in soil samples ranged from 0.25 mg/kg to 7.5 mg/kg (**Table E-A1-1**).

Temporary wells TW-70-107R-11 and TW-70-107R-12 (**Figure E-A1-1**) were gauged several times in 2014 and 2015. LNAPL was only detected at a thickness greater than 0.1 inches at TW-70-107R-11. LNAPL samples were not collected due to insufficient sample volume at TW-70-107R-11.

SB-81-01 Area

Two soil samples were collected from boring SB-81-10 (**Figure E-A1-1**) and submitted for PCB analysis. PCBs were not detected in either sample.

SB-81-02 Area

At the SB-81-02 Area (**Figure E-A1-1**) a total of eight soil samples were submitted for PCB analysis. PCBs were detected at in seven samples collected from four locations. Where detected PCB concentrations in soil samples ranged from 0.72 mg/kg to 10.2 mg/kg (**Table E-A1-1**).

RFI-81-22 Area

At the RFI-81-22 Area (**Figure E-A1-1**) a total of eight soil samples were submitted for PCB analysis. PCBs were detected at in two samples collected from one location. Detected concentrations of PCBs in soil samples ranged from 2.4 mg/kg to 3.2 mg/kg (**Table E-A1-1**).

Soil Gas Evaluation

Two soil gas sampling probes (SGP-81-01 and SGP-81-02) were installed to evaluate methane along the property boundary adjacent to the AOI 81-2 LNAPL Areas. Two rounds of soil gas samples were collected from each probe in June and November 2015 and submitted to the laboratory for methane analysis. In addition the second round of samples were also analyzed for volatile organic compounds (VOCs). (**Table E-A1-2**). Neither methane nor any VOCs were detected in the four soil gas samples.

Table E-A1-1 **Summary of Additional Soil Investigation**
Remedy Recommendation Report Appendix E – AOI 81-2 Cutting Oil Area - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: / Sample Depth(ft): / Date Collected:	Units	CSAT	GSIP	NDC	NPSIC	NSVIA	NVSICI	SB-70-101-11 0 - 2 11/21/14	SB-70-101-11 2 - 4 11/21/14	SB-70-101-12 0 - 2 12/05/14	SB-70-101-12 2 - 4 12/05/14	SB-70-101-13 0 - 2 12/05/14	SB-70-101-13 2 - 4 12/05/14	SB-70-101-14 0 - 2 12/05/14	SB-70-101-14 2 - 4 12/05/14	SB-70-101-15 0 - 2 12/05/14	SB-70-101-15 2 - 4 12/05/14	SB-70-101-17 0 - 2 12/21/15	SB-70-101-17 2 - 4 12/21/15
PCB																			
Aroclor-1016 (PCB-1016)	mg/kg	- -	- -	16	- -	- -	- -	6 UY	0.33 U	3 UY	0.6 UY	1 UY	0.33 U	0.6 UY	0.33 U	3 UY	0.6 UY [0.6 UY]	0.6 UY	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	- -	- -	16	- -	- -	- -	6 UY	0.33 U	3 UY	0.6 UY	1 UY	0.33 U	0.6 UY	0.33 U	3 UY	0.6 UY [0.6 UY]	0.6 UY	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	- -	- -	16	- -	- -	- -	6 UY	0.33 U	3 UY	0.6 UY	1 UY	0.33 U	0.6 UY	0.33 U	3 UY	0.6 UY [0.6 UY]	0.6 UY	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	- -	- -	16	- -	- -	- -	6 UY	0.33 U	3 UY	0.6 UY	1 UY	0.33 U	0.6 UY	0.33 U	3 UY	0.6 UY [0.6 UY]	0.6 UY	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	- -	- -	16	- -	- -	- -	6 UY	0.33 U	3 UY	0.6 UY	1 UY	0.33 U	0.6 UY	0.33 U	3 UY	0.6 UY [0.6 UY]	0.6 UY	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	- -	- -	16	- -	- -	- -	15 Y	2	13 Y	4.3 Y	11 Y	0.33 U	2.9 Y	0.5	12 Y	3.1 Y [4.2 Y]	2.6 Y	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	- -	- -	16	- -	- -	- -	6 UY	0.33 U	3 UY	0.6 UY	1 UY	0.33 U	0.6 UY	0.33 U	3 UY	0.6 UY [0.6 UY]	0.6 UY	0.33 U
Miscellaneous																			
Total solids	mg/kg	- -	- -	- -	- -	- -	- -	900,000	850,000	770,000	850,000	930,000	750,000	840,000	750,000	830,000	860,000 [850,000]	840,000	750,000

Location ID: / Sample Depth(ft): / Date Collected:	Units	CSAT	GSIP	NDC	NPSIC	NSVIA	NVSICI	SB-70-101-18 0 - 2 12/21/15	SB-70-101-18 2 - 4 12/21/15	SB-70-101-19 0 - 2 12/22/15	SB-70-101-19 2 - 4 12/22/15	SB-70-101-20 0 - 2 12/22/15	SB-70-101-20 2 - 4 12/22/15	SB-70-101-21 0 - 2 12/22/15	SB-70-101-21 2 - 4 12/22/15	SB-70-103-18 0 - 2 12/05/14	SB-70-103-18 2 - 4 12/05/14	SB-70-103-19 0 - 2 12/05/14	SB-70-103-19 2 - 4 12/05/14
PCB																			
Aroclor-1016 (PCB-1016)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	2 UY	0.33 U	2 UY	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	2 UY	0.33 U	2 UY	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	2 UY	0.33 U	2 UY	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	2 UY	0.33 U	2 UY	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	2 UY	0.33 U	2 UY	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	- -	- -	16	- -	- -	- -	0.9	0.33 U	0.6	0.33 U [0.33 U]	4.6 Y	0.33	6.8 Y	0.33 U	5 Y	1.5	0.35	0.26 b
Aroclor-1260 (PCB-1260)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	2 UY	0.33 U	2 UY	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U
Miscellaneous																			
Total solids	mg/kg	- -	- -	- -	- -	- -	- -	940,000	880,000	880,000	770,000 [790,000]	880,000	840,000	870,000	920,000	790,000	830,000	840,000	780,000

Location ID: / Sample Depth(ft): / Date Collected:	Units	CSAT	GSIP	NDC	NPSIC	NSVIA	NVSICI	SB-70-103-20 0 - 2 12/05/14	SB-70-103-20 2 - 4 12/05/14	SB-70-103-21 0 - 2 12/05/14	SB-70-103-21 2 - 4 12/05/14	SB-70-107R-13 0 - 2 12/22/15	SB-70-107R-13 2 - 3 12/22/15	SB-70-107R-14 0 - 2 12/22/15	SB-70-107R-14 2 - 4 12/22/15	SB-70-107R-15 0 - 2 12/22/15	SB-70-107R-15 2 - 4 12/22/15	SB-81-06 0 - 2 12/11/14	SB-81-06 2 - 4 12/11/14
PCB																			
Aroclor-1016 (PCB-1016)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	2 UY	0.7 UY	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	2 UY	0.7 UY	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	2 UY	0.7 UY	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	2 UY	0.7 UY	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	2 UY	0.7 UY	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.4	0.33 U	7.5 Y	2 Y	2.5	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	2 UY	0.7 UY	0.33 U	0.33 U	0.33 U
Miscellaneous																			
Total solids	mg/kg	- -	- -	- -	- -	- -	- -	850,000	840,000	770,000	740,000	920,000	850,000	780,000	820,000	770,000	880,000	880,000	850,000

Table E-A1-1 **Summary of Additional Soil Investigation**
Remedy Recommendation Report Appendix E – AOI 81-2 Cutting Oil Area - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: / Sample Depth(ft): / Date Collected:	Units	CSAT	GSIP	NDC	NPSIC	NSVIA	NVSICI	SB-81-07 0 - 2 12/11/14	SB-81-07 2 - 4 12/11/14	SB-81-08 0 - 2 12/11/14	SB-81-08 2 - 4 12/11/14	SB-81-09 0 - 2 12/11/14	SB-81-09 2 - 4 12/11/14	SB-81-10 0 - 2 12/11/14	SB-81-10 2 - 4 12/11/14	SB-81-11 0 - 2 12/11/14	SB-81-11 2 - 4 12/11/14	SB-81-12 0 - 2 12/11/14	SB-81-12 2 - 4 12/11/14
PCB																			
Aroclor-1016 (PCB-1016)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.6 UY	0.33 U	0.33 U	1 UY	1 UY	0.33 U	0.33 U [0.6 UY]
Aroclor-1221 (PCB-1221)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.6 UY	0.33 U	0.33 U	1 UY	1 UY	0.33 U	0.33 U [0.6 UY]
Aroclor-1232 (PCB-1232)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.6 UY	0.33 U	0.33 U	1 UY	1 UY	0.33 U	0.33 U [0.6 UY]
Aroclor-1242 (PCB-1242)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.6 UY	0.33 U	0.33 U	1 UY	1 UY	0.33 U	0.33 U [0.6 UY]
Aroclor-1248 (PCB-1248)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.6 UY	0.33 U	0.33 U	1 UY	1 UY	0.33 U	0.33 U [0.6 UY]
Aroclor-1254 (PCB-1254)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	3.2 Y	2.4 Y	0.33 U	0.33 U	6.7 Y	8.7 Y	0.72	2.2 [1.9 Y]
Aroclor-1260 (PCB-1260)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.6 UY	0.33 U	0.33 U	1 UY	1 UY	0.33 U	0.33 U [0.6 UY]
Miscellaneous																			
Total solids	mg/kg	- -	- -	- -	- -	- -	- -	870,000	840,000	870,000	840,000	870,000	830,000	910,000	880,000	900,000	830,000	920,000	710,000 [870,000

Location ID: / Sample Depth(ft): / Date Collected:	Units	CSAT	GSIP	NDC	NPSIC	NSVIA	NVSICI	SB-81-13 0 - 2 12/11/14	SB-81-13 2 - 4 12/11/14	SB-81-14 0 - 2 12/11/14	SB-81-14 2 - 4 12/11/14	TW-70-101-8 0 - 2 11/17/14	TW-70-101-8 3 - 5 11/17/14	TW-70-101-8 7 - 8 11/17/14	TW-70-101-9 0 - 2 11/17/14	TW-70-101-9 3 - 5 11/17/14	TW-70-101-9 7 - 9 11/17/14	TW-70-101-10 0 - 2 11/17/14	TW-70-101-10 3 - 5 11/17/14
PCB																			
Aroclor-1016 (PCB-1016)	mg/kg	- -	- -	16	- -	- -	- -	1.5 UY	0.5 UY	0.33 U	0.5 UY	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	- -	- -	16	- -	- -	- -	1.5 UY	0.5 UY	0.33 U	0.5 UY	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	- -	- -	16	- -	- -	- -	1.5 UY	0.5 UY	0.33 U	0.5 UY	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	- -	- -	16	- -	- -	- -	1.5 UY	0.5 UY	0.33 U	0.5 UY	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	- -	- -	16	- -	- -	- -	1.5 UY	0.5 UY	0.33 U	0.5 UY	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	- -	- -	16	- -	- -	- -	10.2 Y	3.7 Y	0.33 U	4.9 Y	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.9
Aroclor-1260 (PCB-1260)	mg/kg	- -	- -	16	- -	- -	- -	1.5 UY	0.5 UY	0.33 U	0.5 UY	0.34	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Miscellaneous																			
Total solids	mg/kg	- -	- -	- -	- -	- -	- -	910,000	720,000	870,000	840,000	890,000	870,000	810,000 [820,000	840,000	830,000	820,000	910,000	770,000

Location ID: / Sample Depth(ft): / Date Collected:	Units	CSAT	GSIP	NDC	NPSIC	NSVIA	NVSICI	TW-70-101-10 7 - 9 11/17/14	TW-70-101-16 0 - 2 06/15/15	TW-70-101-16 3 - 5 06/15/15	TW-70-101-16 7 - 9 06/15/15	TW-70-101-17 0 - 2 12/15/15	TW-70-101-19 0 - 2 12/21/15	TW-70-101-19 2 - 4 12/21/15	TW-70-103-12 0 - 2 11/18/14	TW-70-103-12 3 - 5 11/18/14	TW-70-103-12 7 - 9 11/18/14	TW-70-103-13 0 - 2 11/18/14	TW-70-103-13 3 - 3.5 11/18/14
PCB																			
Aroclor-1016 (PCB-1016)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	2.1	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.84	0.33 U	0.33 U	0.71	0.8
Aroclor-1260 (PCB-1260)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.12	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Miscellaneous																			
Total solids	mg/kg	- -	- -	- -	- -	- -	- -	750,000	900,000	800,000	800,000	830,000	870,000	870,000	940,000	840,000	760,000	910,000	890,000

Table E-A1-1 **Summary of Additional Soil Investigation**
Remedy Recommendation Report Appendix E – AOI 81-2 Cutting Oil Area - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: / Sample Depth(ft): / Date Collected:	Units	CSAT	GSIP	NDC	NPSIC	NSVIA	NVSICI	TW-70-103-13 7 - 9 11/18/14	TW-70-103-14 0 - 2 11/18/14	TW-70-103-14 3 - 5 11/18/14	TW-70-103-14 7 - 9 11/18/14	TW-70-103-15 0 - 2 11/19/14	TW-70-103-15 3 - 5 11/19/14	TW-70-103-15 7 - 9 11/19/14	TW-70-103-16 0 - 2 11/19/14	TW-70-103-16 3 - 5 11/19/14	TW-70-103-16 7 - 9 11/19/14	TW-70-103-17 0 - 2 11/19/14	TW-70-103-17 3 - 5 11/19/14
PCB																			
Aroclor-1016 (PCB-1016)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY	0.33 U	0.33 U	0.5 UY	1.5 UY	0.5 UY	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY	0.33 U	0.33 U	0.5 UY	1.5 UY	0.5 UY	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY	0.33 U	0.33 U	0.5 UY	1.5 UY	0.5 UY	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	5.3 Y	0.33 U	0.33 U	0.5 UY	1.5 UY	0.5 UY	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY	0.33 U	0.33 U	0.5 UY	1.5 UY	0.5 UY	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	1.3	0.33 U	0.31 b	0.5 UY	0.72	0.33 U	4.8 Y	7.8 Y	3.1 Y	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY	0.33 U	0.33 U	0.5 UY	1.5 UY	0.5 UY	0.33 U	0.33 U
Miscellaneous																			
Total solids	mg/kg	- -	- -	- -	- -	- -	- -	850,000	940,000	870,000	850,000	850,000	880,000	830,000	900,000	920,000	860,000	930,000	800,000

Location ID: / Sample Depth(ft): / Date Collected:	Units	CSAT	GSIP	NDC	NPSIC	NSVIA	NVSICI	TW-70-103-17 7 - 9 11/19/14	TW-70-103-19 0 - 2 06/12/15	TW-70-103-19 3 - 5 06/12/15	TW-70-103-19 5 - 7 06/12/15	TW-70-103-20 0 - 2 06/15/15	TW-70-103-20 3 - 5 06/15/15	TW-70-103-20 7 - 9 06/15/15	TW-70-107R-11 0 - 2 11/24/14	TW-70-107R-11 3 - 5 11/24/14	TW-70-107R-11 7 - 9 11/24/14	TW-70-107R-12 0 - 2 11/19/14	TW-70-107R-12 3 - 5 11/19/14
PCB																			
Aroclor-1016 (PCB-1016)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY [0.33 U]
Aroclor-1221 (PCB-1221)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY [0.33 U]
Aroclor-1232 (PCB-1232)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY [0.33 U]
Aroclor-1242 (PCB-1242)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY [0.33 U]
Aroclor-1248 (PCB-1248)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY [0.33 U]
Aroclor-1254 (PCB-1254)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	2.6 Y	0.34 [0.2 b]	0.33 U	0.33 U	1.1	0.33 U	0.25 b	4 Y [2]
Aroclor-1260 (PCB-1260)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.2 b	0.33 U	0.33 U	0.6 UY	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY [0.33 U]
Miscellaneous																			
Total solids	mg/kg	- -	- -	- -	- -	- -	- -	840,000	910,000	770,000	750,000	900,000	820,000 [880,000]	850,000	890,000	850,000	810,000	900,000	850,000 [850,000]

Notes:
mg/kg - milligram per kilogram
ft - feet
CSAT - Soil Saturation Concentration Screening Level
GSIP - Groundwater Surface Water Interface Protection Criteria
NDC - Nonresidential Direct Contact Criteria
NPSIC - Nonresidential Particulate Soil Inhalation Criteria
NSVIA - Nonresidential Soil Volatilization to Indoor Air Inhalation Criteria
NVSICI - Nonresidential Infinite Source Volatile Soil Inhalation Criteria
U – not detected above the reporting limit□
Y - Elevated reporting limit due to high target concentration
Shaded and bolded results exceed one or more criteria.

Table E-A1-2

Summary of Soil Gas Investigation
Remedy Recommendation Report Appendix E – AOI 81-2 Cutting Oil Area - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	SGVI-NR	SGVI-SS-NR	SGP-81-01 1.5-2.0 06/18/15	SGP-81-01 1.5-2.0 11/20/15	SGP-81-02 1.5-2.0 06/18/15	SGP-81-02 1.5-2.0 11/24/15
VOC							
1,1,1-Trichloroethane	ppbv	6,100,000	610,000	NA	3.8 U	NA	3.8 U
1,1,2,2-Tetrachloroethane	ppbv	430	43	NA	0.75 U	NA	0.75 U
1,1,2-Trichloroethane	ppbv	2,000	200	NA	0.38 U	NA	0.38 U
1,1-Dichloroethane	ppbv	690,000	69,000	NA	3.8 U	NA	3.8 U
1,1-Dichloroethene	ppbv	280,000	28,000	NA	0.75 U	NA	0.75 U
1,2,4-Trichlorobenzene	ppbv	3,000	300	NA	3.8 U	NA	3.8 U
1,2,4-Trimethylbenzene	ppbv	250,000	25,000	NA	3.8 U	NA	3.8 U
1,2-Dibromoethane (Ethylene dibromide)	ppbv	38	3.8	NA	0.38 U	NA	0.38 U
1,2-Dichlorobenzene	ppbv	280,000	28,000	NA	3.8 U	NA	3.8 U
1,2-Dichloroethane	ppbv	1,600	160	NA	0.38 U	NA	0.38 U
1,2-Dichloropropane	ppbv	4,800	480	NA	0.75 U	NA	0.75 U
1,3,5-Trimethylbenzene	ppbv	250,000	25,000	NA	3.8 U	NA	3.8 U
1,3-Butadiene	ppbv	- -	- -	NA	3.8 U	NA	3.8 U
1,3-Dichlorobenzene	ppbv	2,800	280	NA	0.38 U	NA	0.38 U
1,4-Dichlorobenzene	ppbv	4,200	420	NA	0.75 U	NA	0.75 U
1,4-Dioxane	ppbv	- -	- -	NA	3.8 U	NA	3.8 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppbv	9,400,000	940,000	NA	3.8 U	NA	3.8 U
2-Hexanone	ppbv	41,000	4,100	NA	3.8 U	NA	3.8 U
2-Methylnaphthalene	ppbv	9,500	950	NA	15 U	NA	15 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppbv	4,100,000	410,000	NA	3.8 U	NA	3.8 U
Acetone	ppbv	14,000,000	1,400,000	NA	20 U	NA	20 U
Benzene	ppbv	6,500	650	NA	0.38 U	NA	0.38 U
Benzyl chloride	ppbv	680	68	NA	3.4 U	NA	3.4 U
Bromodichloromethane	ppbv	1,400	140	NA	0.38 U	NA	0.38 U
Bromoform	ppbv	15,000	1,500	NA	0.75 U	NA	0.75 U
Bromomethane (Methyl bromide)	ppbv	7,100	710	NA	0.75 U	NA	0.75 U
Carbon disulfide	ppbv	1,200,000	120,000	NA	3.8 U	NA	3.8 U
Carbon tetrachloride	ppbv	4,600	460	NA	0.38 U	NA	0.38 U
Chlorobenzene	ppbv	84,000	8,400	NA	3.8 U	NA	3.8 U
Chloroethane	ppbv	21,000,000	2,100,000	NA	3.8 U	NA	3.8 U
Chloroform (Trichloromethane)	ppbv	15,000	1,500	NA	0.75 U	NA	0.75 U
Chloromethane (Methyl chloride)	ppbv	130,000	13,000	NA	3.8 U	NA	3.8 U
cis-1,2-Dichloroethene	ppbv	9,800	980	NA	0.75 U	NA	0.75 U
cis-1,3-Dichloropropene	ppbv	- -	- -	NA	0.75 U	NA	0.75 U
Cyclohexane	ppbv	9,700,000	970,000	NA	3.8 U	NA	3.8 U
Dibromochloromethane	ppbv	830	83	NA	0.38 U	NA	0.38 U
Dichlorodifluoromethane (CFC-12)	ppbv	56,000,000	5,600,000	NA	0.75 U	NA	0.75 U
Ethyl acetate	ppbv	4,900,000	490,000	NA	3.8 U	NA	3.8 U
Ethylbenzene	ppbv	130,000	13,000	NA	0.75 U	NA	0.75 U

Table E-A1-2

Summary of Soil Gas Investigation
Remedy Recommendation Report Appendix E – AOI 81-2 Cutting Oil Area - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	SGVI-NR	SGVI-SS-NR	SGP-81-01 1.5-2.0 06/18/15	SGP-81-01 1.5-2.0 11/20/15	SGP-81-02 1.5-2.0 06/18/15	SGP-81-02 1.5-2.0 11/24/15
Hexachlorobutadiene	ppbv	740	74	NA	0.75 U	NA	0.75 U
Hexane	ppbv	1,100,000	110,000	NA	3.8 U	NA	3.8 U
Isopropyl alcohol	ppbv	- -	- -	NA	3.8 UL	NA	3.8 UL
m&p-Xylene	ppbv	- -	- -	NA	3.8 U	NA	3.8 U
Methyl tert butyl ether (MTBE)	ppbv	4,600,000	460,000	NA	3.8 U	NA	3.8 U
Methylene chloride	ppbv	180,000	18,000	NA	7.5 U	NA	7.5 U
Naphthalene	ppbv	2,800	280	NA	3.8 U	NA	3.8 U
N-Heptane	ppbv	4,700,000	470,000	NA	3.8 U	NA	3.8 U
o-Xylene	ppbv	- -	- -	NA	3.8 U	NA	3.8 U
Styrene	ppbv	71,000	7,100	NA	3.8 U	NA	3.8 U
Tetrachloroethene	ppbv	33,000	3,300	NA	0.38 U	NA	0.38 U
Tetrahydrofuran	ppbv	34,000	3,400	NA	3.8 U	NA	3.8 U
Toluene	ppbv	7,400,000	740,000	NA	3.8 U	NA	3.8 U
trans-1,2-Dichloroethene	ppbv	98,000	9,800	NA	3.8 U	NA	3.8 U
trans-1,3-Dichloropropene	ppbv	- -	- -	NA	0.75 U	NA	0.75 U
Trichloroethene	ppbv	2,100	210	NA	0.39 U	NA	0.39 U
Trichlorofluoromethane (CFC-11)	ppbv	56,000,000	5,600,000	NA	3.8 U	NA	3.8 U
Trifluorotrichloroethane (Freon 113)	ppbv	14,000,000	1,400,000	NA	3.8 U	NA	3.8 U
Vinyl acetate	ppbv	320,000	32,000	NA	3.8 U	NA	3.8 U
Vinyl chloride	ppbv	15,000	1,500	NA	0.75 U	NA	0.75 U
Xylene (total)	ppbv	130,000	13,000	NA	7.5 U	NA	7.5 U
Volatile Organics							
Methane	ppmv	12,500	12,500	10 U	18 U	10 U	NA

Notes:
ppbv - parts per billion by volume
ppmv - parts per million by volume
ft - feet
NA - Not Analyzed
U – not detected above the reporting limit
Shaded and bolded results exceed one or more criteria.

SGVI-SS-NR - Nonresidential Vapor Intrusion Shallow Soil Gas (sub-slab) Screening Levels .Samples collected less than or equal to 1.5 meters bgs or building foundation.

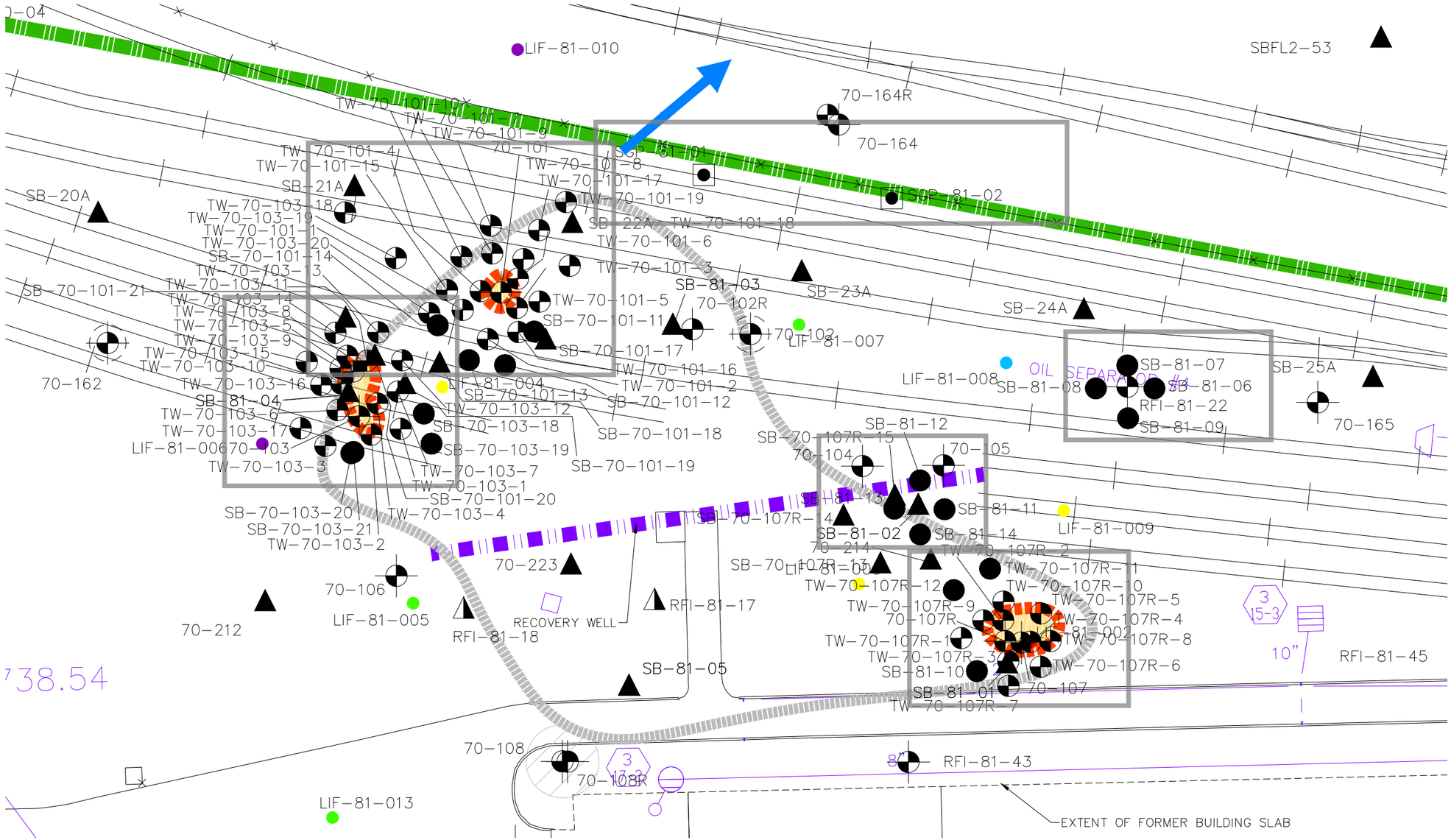
SGVI-NR - Nonresidential Vapor Intrusion Deep Soil Gas Screening Levels*

* - SGVI presented in this table are health-based values. The applicable SGVI are based on the higher of the health-based value and the appropriate analytical reporting limit.

Table E-A1-3 **Summary of Additional LNAPL Investigation**
Remedy Recommendation Report Appendix E – AOI 81-2 LNAPL Area - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: Sample Depth(): Date Collected:	Units	70-103 12/29/15	TW-70-101-2 12/28/15	TW-70-101-7 12/08/14	TW-70-101-8 12/28/15	TW-70-103-8 12/08/14	TW-70-107R-9 12/08/14
PCB							
Aroclor-1016 (PCB-1016)	mg/kg	<7 Y	<33 Y	<13.3 Y	<3 Y	<10 Y	<13.3 Y
Aroclor-1221 (PCB-1221)	mg/kg	<7 Y	<33 Y	<13.3 Y	<3 Y	<10 Y	<13.3 Y
Aroclor-1232 (PCB-1232)	mg/kg	<7 Y	<33 Y	<13.3 Y	<3 Y	<10 Y	<13.3 Y
Aroclor-1242 (PCB-1242)	mg/kg	<7 Y	<33 Y	<13.3 Y	<3 Y	<10 Y	<13.3 Y
Aroclor-1248 (PCB-1248)	mg/kg	<7 Y	<33 Y	<13.3 Y	<3 Y	<10 Y	<13.3 Y
Aroclor-1254 (PCB-1254)	mg/kg	18 Y	67 Y	81 Y	9 Y	71 Y	95 Y
Aroclor-1260 (PCB-1260)	mg/kg	<7 Y	<33 Y	<13.3 Y	<3 Y	<10 Y	<13.3 Y

Notes:
mg/kg - milligram per kilogram
Y - Elevated reporting limit due to high target concentration



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- SOIL GAS PROBE
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- DEMOLISHED BUILDING
- APPROXIMATE LOCATION OF RECOVERY TRENCH
- STORM SEWER LINE
- GENERAL GROUNDWATER FLOW DIRECTION

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200
- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 02/15/2016.

0 60' 120'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 81-2
INVESTIGATION LOCATIONS AND LNAPL E□TENTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
E-A1-1

CITY: SYRACUSE DV/GROUP: ENV DB: A.SANCHEZ LD: ALS/GMS PIC: C.S.PETERS PM: C.KIKER TM: C.KIKER LYR: ON=*;OFF=*REF*
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IMAGES: PROJECTNAME: ----

Appendix F

AOI 83/84-2 Cutting Oil Area
Remedy Recommendation Memo

ARCADIS of Michigan, LLC
28550 Cabot Drive
Suite 500
Novi
Michigan 48377
Tel 248 994 2240
Fax 248 994 2241

MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER
Chris Peters, ARCADIS
Steve Gaito, ARCADIS

From:
Micki M. Maki
Victoria Stacey

Date:
August 29, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
Priority #7 - AOI 83/84-2 Cutting Oil LNAPL Area
Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

As part of the light non-aqueous phase liquid (LNAPL) remedy evaluation process, the Site's 17 LNAPL areas were prioritized based on risk. The area of interest (AOI) AOI 83/84-2 Cutting Oil LNAPL Area (AOI 83/84-2 LNAPL Area) is ranked as Priority #7 with a total potential risk score of 7 (**Table 5 of the main report**). A conceptual site model cross-section is attached (**Figures F-1 and F-2**) that provides an overview of the AOI 83/84-2 LNAPL Area impacts.

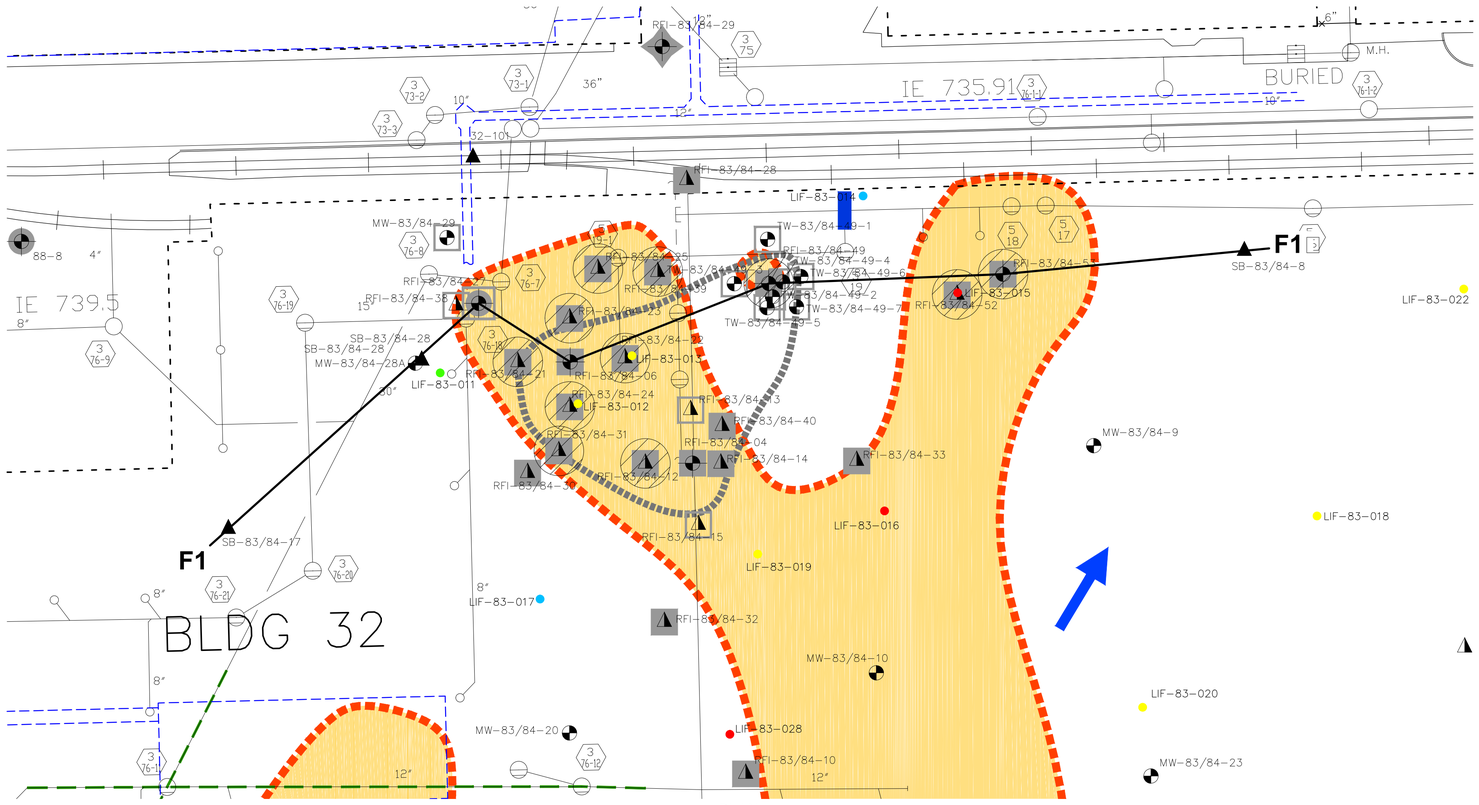
Historical interim measures (IMs) completed at the AOI 83/84-2 LNAPL Area include a product recovery ell an LNAPL bailing program, and bulkheading at the Outfall 003 and Outfall 005 storm sewers. Partial removal of LNAPL completed in this area is considered a component of the remedy.

The compositional and saturation concerns identified for the AOI 83/84-2 LNAPL Area were evaluated in the LNAPL decision tree (**Attachment 2**) and are summarized below:

- Theoretically, there is a potential unacceptable vapor phase exposure risk associated with methane for future redevelopment scenarios due to the biodegradation of LNAPL generating methane; however, this will be addressed by the proposed institutional controls.

- Engineering controls are required to effectively mitigate the potential risks associated with particulate soil inhalation and direct contact exposures associated with future redevelopment scenarios.
- Additional evaluation of the volatile soil inhalation criteria exceedance is required to determine an appropriate remedy recommendation.
- No feasible options exist to mitigate unacceptable risk through compositional change.
- The LNAPL may be readily recoverable in the southern portion of the plume.
- The Outfall 003 and 005 storm sewers have been bulkheaded in this portion of the Site, so the mobility concerns have been addressed and the GSI pathway is not applicable at this AOI.
- PCBs were detected in LNAPL samples collected from the AOI 83/84-2 LNAPL Area at concentrations ranging from 6.1 to 62.4 parts per million (ppm). A targeted excavation in the area surrounding RFI-83/84-49 will remove the highest concentration of PCBs at 62.4 ppm. Due to the nature and extent of PCB impacts, it is requested that the remaining PCB impacts at AOI 83/84-2 be allowed to remain in place and the area be designated as low occupancy [per 761.61(a)(4)(i)(B)].

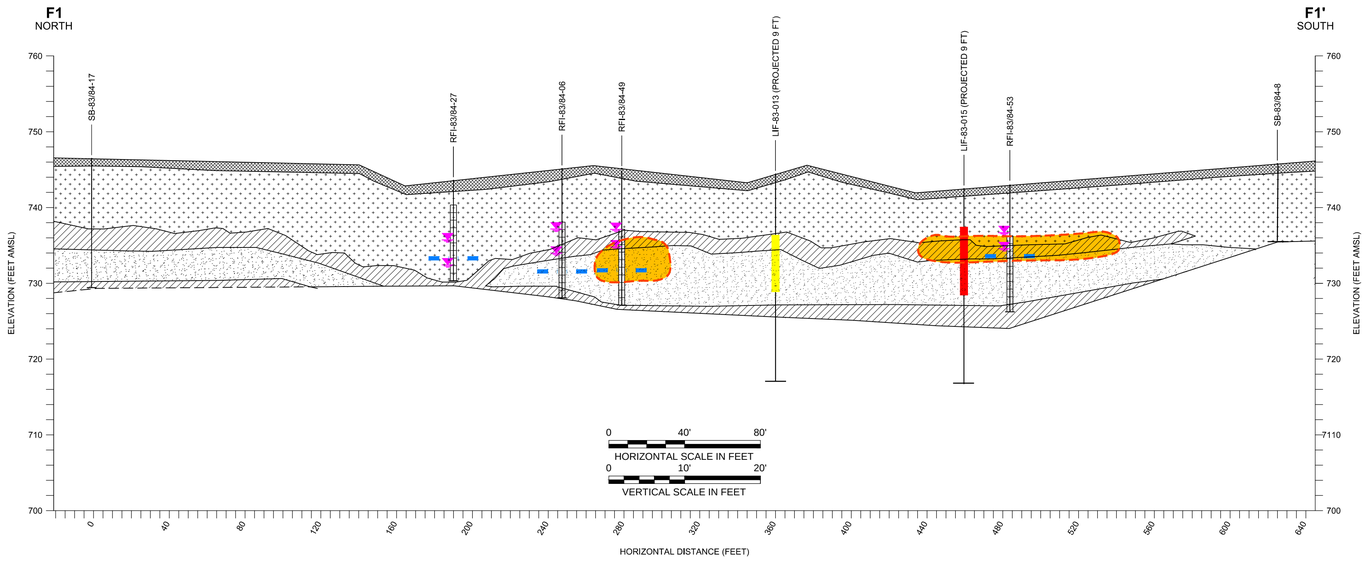
Based on the current understanding of conceptual site model risks, engineering and institution controls can effectively mitigate the risks associated with particulate soil inhalation, direct contact, and potential volatilization to indoor air concerns for a future structure. The mobility concerns have been addressed through bulkheading activities. Additionally, a targeted excavation will be completed at RFI-83/84-49 to remove PCB-impacted soils/LNAPL in this area.

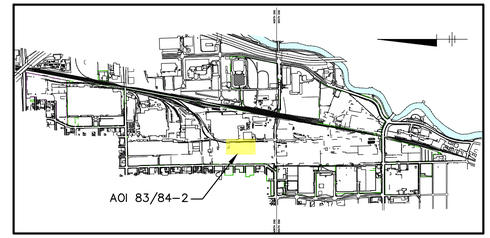


PLAN

0 40' 80'

GRAPHIC SCALE





SITE MAP

0 2000' 4000'

SCALE IN FEET

AOI 83/84-2 CUTTING OIL AREA

KEY LNAPL COMPOSITION AND SATURATION CONCERNS

1) PARTICULATE SOIL INHALATION (AMBIENT AIR)
2) VOLATILE SOIL INHALATION (AMBIENT AIR)
3) DIRECT CONTACT FOR SELECT SVOCS AND METAL IN SOIL
4) DIRECT CONTACT FOR PCBS IN LNAPL AT RFI-83/84-49
5) POTENTIAL VOLATILIZATION TO INDOOR AIR CONCERNS FOR FUTURE STRUCTURES

COMPLETED INTERIM MEASURES AND RECOMMENDED REMEDIES

R-1) BUILDING 32 RECOVERY WELL (COMPLETED IM)

R-2) BULKHEADED SECTIONS OF OUTFALL 003 AND 005 TO ELIMINATE GSI PATHWAY (IM COMPLETED)

R-3) MAINTAIN SURFACE COVER TO ADDRESS PARTICULATE SOIL INHALATION AND DIRECT CONTACT IN SOIL CONCERNS

R-4) TARGETED EXCAVATION OF PCB IMPACTS AT RFI-83/84-49

R-5) INSTITUTIONAL CONTROLS

NOTES:

1. BASE MAP INFORMATION FROM SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.
2. BASED ON INFORMATION AVAILABLE AS OF 03.19.2014.
3. FILL MATERIAL CONSISTS OF PRIMARILY OF SILTS AND SANDS UNDERLAIN BY CLAY.

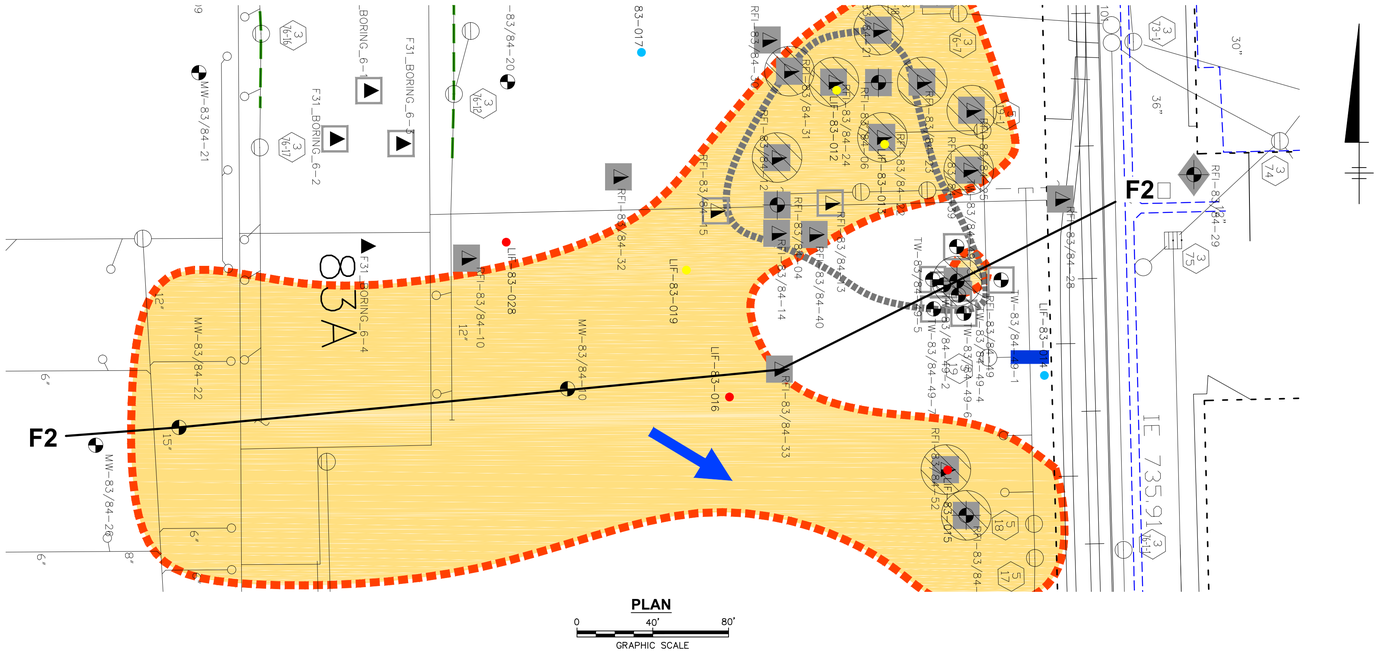
RACER TRUST
BUICK CITY, FLINT, MICHIGAN

AOI 83/84-2 CONCEPTUAL SITE MODEL CROSS SECTION F1-F1'

ARCADIS

FIGURE
F-1

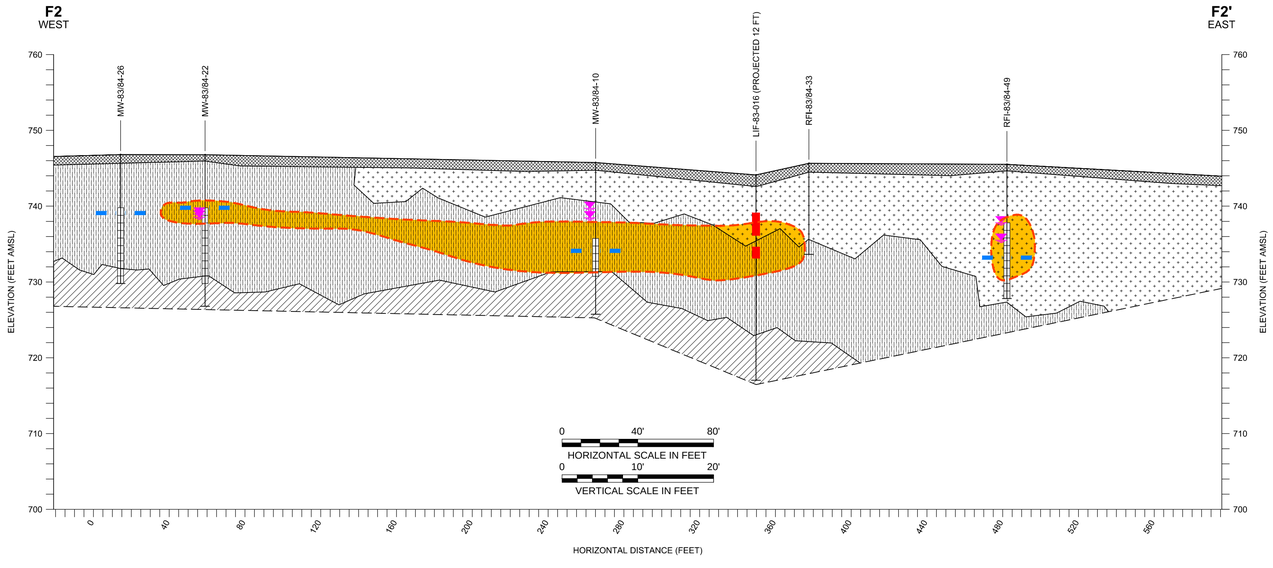
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IMAGES: PROJECTNAME: ----

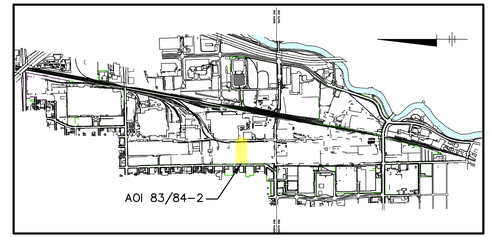


PLAN

0 40' 80'

GRAPHIC SCALE





SITE MAP

0 2000' 4000'

SCALE IN FEET

AOI 83/84-2 CUTTING OIL AREA

□EY LNAPL COMPOSITION AND SATURATION CONCERNS

1) PARTICULATE SOIL INHALATION (AMBIENT AIR)
2) VOLATILE SOIL INHALATION (AMBIENT AIR)
3) DIRECT CONTACT FOR SELECT SVOCS AND METAL IN SOIL
4) DIRECT CONTACT FOR PCBS IN LNAPL AT RFI-83/84-49
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COMPLETED INTERIM MEASURES AND RECOMMENDED REMEDIES

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R-2) BULKHEADED SECTIONS OF OUTFALL 003 AND 005 TO ELIMINATE GSI PATHWAY (IM COMPLETED)

R-3) MAINTAIN SURFACE COVER TO ADDRESS PARTICULATE SOIL INHALATION AND DIRECT CONTACT IN SOIL CONCERNS

R-4) TARGETED EXCAVATION OF PCB IMPACTS AT RFI-83/84-49

R-5) INSTITUTIONAL CONTROLS

NOTES:

1. BASE MAP INFORMATION FROM SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.
2. BASED ON INFORMATION AVAILABLE AS OF 03.19.2014.
3. FILL MATERIAL CONSISTS OF PRIMARILY OF SILTS AND SANDS.

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BUICK CITY, FLINT, MICHIGAN

AOI 83/84-2 CONCEPTUAL SITE MODEL CROSS SECTION F2-F2□

ARCADIS

FIGURE
F-2

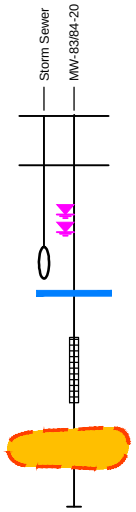
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LEGEND

- PROPERTY BOUNDARY
- HISTORICAL LNAPL EXTENT
- CURRENT LNAPL EXTENT
- STORM SEWER
- ABANDONED STORM SEWER LATERAL
- APPROXIMATE LOCATION OF RECOVERY TRENCH
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- A1 — A1 LINE OF SECTION
- RFI MONITORING WELL LOCATION
- MONITORING WELL LOCATION
- RECOVERY WELL (NAPL) LOCATION
- PIEZOMETER LOCATION
- SOIL BORING LOCATION
- DECOMMISSIONED WELL LOCATION
- EVIDENCE OF PRODUCT OBSERVED IN SOIL

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

- <5
- 5–10
- 10–100
- 100–200
- >200
- HAND AUGER REFUSAL (TOP 5')
- GROUNDWATER SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- GROUNDWATER SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- SOIL SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES DO NOT EXCEED APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES EXCEED ONE OR MORE APPLICABLE CRITERIA



- WELL/BORING ID
- EXISTING GRADE
- LITHOLOGICAL CONTACT (DASHED WHERE INFERRED)
- NAPL LEVEL (HISTORIC HIGH AND LOW LEVELS)
- WATER TABLE
- WELL SCREEN
- APPROXIMATE EXTENT OF LNAPL
- WELL/BORING BOTTOM
- ASPHALT
- CONCRETE
- CLAY
- FILL
- GRAVEL
- INTERBEDDED SAND AND CLAY
- INTERBEDDED SANDS AND SILTS
- INTERBEDDED SILT AND CLAY
- SAND
- SILT
- SILTY SAND

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

CROSS SECTION LEGEND

ARCADIS

FIGURE
F-3

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB0064410\2014\00206\Xsections\64410V01.DWG LAYOUT: 1A SAVED: 7/11/2014 11:58 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: BBL-FULL.CTB PLOTTED: 7/11/2014 1:56 PM BY: SANCHEZ, ADRIAN
XREFS: IMAGES: PROJECTNAME: ---
Xr64410X3Bsp
Xr64410XDrainage
Xr64410X01
Xr64410XLIFsp2
Xr64410X01
Xr64410XAOI
Xr64410XLNAPL

Attachment 1

LNAPL Conceptual Site Model

Priority #7 - AOI 83/84-2 Cutting Oil LNAPL Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 1 - Conceptual Site Model

This attachment presents a conceptual site model for the Area of Interest (AOI) 83/84-2 Cutting Oil light non-aqueous phase liquid (LNAPL) Area (AOI 83/84-2 LNAPL Area). The AOI 83/84-2 LNAPL Area is located at the Northend of the Buick City Site (Site), located in Flint, Michigan (**Figure F1-1**).

1. Background

AOI 83/84-2 is located in the southern portion of Building 32, which is part of the former Factory 83/84 Area located in the southwestern portion of the Northend of the Site (**Figure F1-2**). Historically, the former Factory 83/84 Area was used for the manufacture of front- and rear-axle assemblies prior to 1981. From 1981 to 2010, the area was used for manufacturing "white metals" components such as water pumps, pistons, and manifolds. Former Building 32 includes two basement areas where product was observed on standing water in the tunnel of former Building 32. The presence of the AOI 83/84-2 LNAPL Area is presumably due to historical releases associated with operations in this area.

Historic operations in former Building 32 included both "wet" and "dry" operations involving various metal chip conveyors trenches, process fluid recirculation and/or recovery sumps and pits, product supply sumps and storage areas, and metal chip processing.

Investigation data previously presented in Site reports are not re-presented in this memo. However, pertinent AOI 83/84-2 investigation data that has not previously been presented in a Site report is attached.

2. Former Interim Measures

2.1. LNAPL Monitoring and Bailing Program

During the Site-wide LNAPL monitoring program conducted from 2003 through 2005, a total of approximately 7 gallons of LNAPL was recovered during quarterly bailing events in the AOI 83/84-2 Area.

2.2. Product Recovery System

In response to the observation of LNAPL beneath the floor of former Building 32, a recovery well was installed in April 1990. There is limited information on the design of this system. The proposed design included a 24-inch-diameter recovery well with a 10-foot well screen. An automated belt-skimming device in the recovery well was proposed to be installed. The collected product was then to be routed to the Site's process waste system. The total amount of LNAPL recovered by this well is unknown.

3. AOI 83/84-2 Site Setting and Data Summary

This section provides a summary of the geology, hydrogeology, analytical data, and LNAPL characteristics and extent of impacts for the AOI 83/84-2 LNAPL Area.

Figure F1-2 presents the locations of the existing and abandoned monitoring wells and soil borings in the AOI 83/84-2 Area.

3.1. AOI 83/84-2 Geology and Hydrogeology

- *Geology:* The soils at AOI 83/84-2 consists primarily of fine to medium sand to silty sands to a depth of approximately 8 feet below ground surface (bgs) that are underlain by interbedded sands and silty clays/clays to depths of 25 feet bgs. The logs also indicated evidence of LNAPL impacts from as shallow as 5 feet bgs and as deep as 15 feet bgs, across the area.

- *Groundwater/LNAPL Levels:* Thirteen monitoring wells at the AOI 83/84-2 LNAPL Area are gauged to monitor the extent of the LNAPL area. Depth to groundwater (or LNAPL, where present) in this area is generally 10 feet bgs; although it has been measured as shallow as 6.03 feet bgs and as deep as 14.21 feet bgs. The AOI 83/84-2 LNAPL Area is currently defined by six monitoring wells at AOI 83/84-2 (RFI-83/84-04, RFI-83/84-06, RFI-83/84-27, RFI-83/84-49, RFI-83/84-53, and MW-83/84-10) with measured LNAPL thicknesses greater than 0.1 feet. Additionally, LNAPL has also been measured at a thickness of 0.02 feet at MW-83/84-22. During the last three years, thicknesses of LNAPL have ranged from approximately 0.05 feet (RFI-83/84-04) to 6.96 feet (RFI-83/84-27). Correlations between the depth to groundwater and LNAPL thicknesses are not evident at AOI 83/84-2. The groundwater/LNAPL gauging data are presented in **Appendix X.**

  Based on historic fluid level gauging data, groundwater flow in this portion of the Site is generally to the southeast.

3.2. Groundwater and Soil Analytical Data

Groundwater and soil data collected during Site investigations were compared to applicable Michigan Part 201 nonresidential criteria.

3.2.1 Groundwater Analytical Data

Groundwater concentrations from the AOI 83/84-2 Area do not exceed the applicable nonresidential criteria. All pertinent groundwater data is presented in **Appendix X**.

3.2.2 Soil VOC, SVOC and Metals Analytical Data

Concentrations in various soil samples collected from borings at AOI 83/84-2 exceed applicable non-residential direct contact criteria (NDC) for benzo(a)anthracene (81.2/80 mg/kg), benzo(a)pyrene (8.3-66.1/8 mg/kg), dibenzo(a,h)anthracene (16.9/8 mg/kg) , arsenic(47/37 mg/kg) and lead (1,200-6,500/900 mg/kg); non-residential infinite source volatile inhalation criteria (NISVI) for phenanthrene (192/190mg/kg); and non-residential particulate soil inhalation criteria (NPSIC) for manganese (1,800-3,500/1,500 mg/kg).

Based on the Human Health Risk Assessment (HHRA) presented in the 2010 Corrective Measures Proposal, chromium was identified as a concern for the redevelopment construction worker. The chromium concentration exceeded the health-based goal for redevelopment construction workers at one location within AOI 83/84-2 from 1 to 3 feet bgs.

The soil exceedances of NDC criteria are located beneath the former Factory 83/84 concrete slab. The depth of impacts range from directly beneath the slab up to 9 feet below ground surface. The soil boring and monitoring well locations are presented on **Figure F1-2**.

3.2.3 Soil PCB Analytical Data

In addition to the soil samples collected at AOI 83/84-2 during RFI activities, soil samples were collected from seven temporary well locations (TW-83/84-49-1 through TW-83/84-49-7) which were installed to delineate the LNAPL identified at RFI-83/84-49 (discussed further in Section 3.3, below). At each temporary well location, four to six soil samples were collected and submitted for PCB analysis to vertically profile the PCB impacts in soil. The locations of the temporary wells are presented on **Figure F1-3**. A total of 41 soil samples were collected from the original RFI-83/84-49 location and the seven temporary wells and an additional 44 soil samples were collected during the RFI for a total of 85 soil samples. Six of the soil samples detected PCBs at concentrations ranging from 0.1 to 3.6 ppm. All pertinent soil data is

presented in **Appendix X**.

3.2.4 GSI Evaluation

The Outfall 003 and 005 storm sewers have been bulkheaded in this portion of the Site, so the mobility concerns have been addressed and the GSI pathway is not applicable at this AOI.

3.2.5 Vapor Intrusion Evaluation

Due to the presence of shallow groundwater and LNAPL (approximately 8 feet below ground surface) at AOI 83/84-2, groundwater data were also compared to the applicable Non-Residential Screening Values for the Vapor Intrusion Pathway presented in the *Michigan Department of Environmental Quality (MDEQ) Guidance Document for the Vapor Intrusion Pathway* (further discussed in Section 3.4 of the Report). Groundwater concentrations do not exceed applicable screening levels.

As there are no structures at the Site, the MDEQ Part 201 criteria are appropriate for comparison of soil data. As discussed in Section 3.2.2, phenanthrene was detected at concentrations exceeding NISVI criteria at RFI-83/84-22 and manganese was detected at concentrations exceeding NPSIC criteria in soil samples collected from the RFI-83/84-21, RFI-83/84-23, RFI-83/84-24, and RFI 83/84-39.

3.3. LNAPL Characteristics

- *LNAPL Analytical Data:* LNAPL present at AOI 83/84-2 consists primarily of cutting oil. Additional analysis indicated that:

  - The LNAPL has a viscosity ranging from 37.6 centipoise (cp) (RFI-83/84-06) to 102.94 cp (RFI-83/84-53), interfacial tension ranging from 23 dynes/centimeter (cm) (RFI-83/84-49) to 27 dynes/cm (RFI-83/84-06), and a specific gravity ranging from 0.89 (RFI-83/84-06) to 0.90 (RFI-83/84-49).

  - The LNAPL contains lead at concentrations that exceed RCRA toxicity characteristic criteria at one location (MW-83/84-10); however, TCLP analysis has not been conducted.

  - Five LNAPL samples were collected from the AOI 83/84-2 and submitted for polychlorinated biphenyls (PCB) analysis. PCBs were detected in four of the samples at concentrations ranging from 1 to 62.4 parts per million. PCBs were detected in LNAPL at a concentration that is greater than the Toxic Substance Control Act (TSCA) level of 50

parts per million (ppm) at one location RFI-83/84-49.

For reference, the viscosity (at 100 degrees Fahrenheit) of olive oil is 43.2 cp and honey is 73.6 cp (Ingersoll-Rand, 1981). The LNAPL analytical data are presented in **Appendix X**.

- *LIF Data:* Eleven LIF borings were completed in the AOI 83/84-2 Area. The LIF waveform signatures observed at AOI 83/84-2 are consistent with the known LNAPL type, cutting oil. The vertical range of LIF impact (greater than 5%RE) at AOI 83/84-2 is typically 5 to 15 feet bgs in the eastern portion of the LNAPL area and 5 to 12 feet in the western portion of the LNAPL area. **Figure F1-2** presents the results of the LIF investigation and the extent of impacts associated with the AOI 83/84-2 LNAPL Area.

- *Transmissivity:* An LNAPL transmissivity study was completed at the AOI 83/84-2 LNAPL Area in April and August 2013, which consisted of completing baildown testing at three monitoring wells (MW-83/84-10, RFI-83/84-27 and RFI-83/84-53). Based on LNAPL baildown test results, LNAPL transmissivities quantified at monitoring well MW-83/84-10 (located in the western portion of the LNAPL Area) was 0.03 square feet per day (ft^2/day); at RFI-83/84-27 (located in the northern portion of the LNAPL area) was 0.02 ft^2/day; and at RFI-83/84-53 (located in the southern portion of the LNAPL area) was 4.1 ft^2/day. The transmissivity data in the northern and western portion of the LNAPL area are less than both the Interstate Technology and Regulatory Council (ITRC) and MDEQ threshold values for recovery. The LNAPL transmissivity from the southern portion of the LNAPL Area is greater than both the ITRC and MDEQ threshold values for recovery which indicates LNAPL recovery is likely practical at this location.

- *Natural Source Zone Depletion:* NSZD testing was not attempted at AOI 83/84-2 due to the presence of a concrete slab. The testing completed at the Southend of the Site indicated that NSZD is occurring; however, the currently available testing technologies cannot reliably quantify the depletion beneath a concrete slab.

3.4. Extent of LNAPL

During the RCES preparation, the AOI 83/84-2 LNAPL area (with greater than 0.5 ft of LNAPL) was calculated to be approximately 49,500 square feet based on historical data. Following additional delineation and investigation work at the AOI 83/84-2 LNAPL Area the revised (as discussed in Section 2.1.3 of the main report) extent is approximately 82,000 square feet.(with 0.1 ft or greater of LNAPL). Based on the LIF and soil boring log data, approximate depth impacts are approximately 5 to 15 ft bgs.

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Boring Logs

Date Start/Finish: 4/16/13-4/16/13
Drilling Company: Stearns Drilling
Driller's Name: Brian Marshall
Drilling Method: Sonic
Sampling Method: Hand Auger/ 4" Core Barrel
Rig Type: Mini Sonic

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 25.0' bgs
Surface Elevation: NA

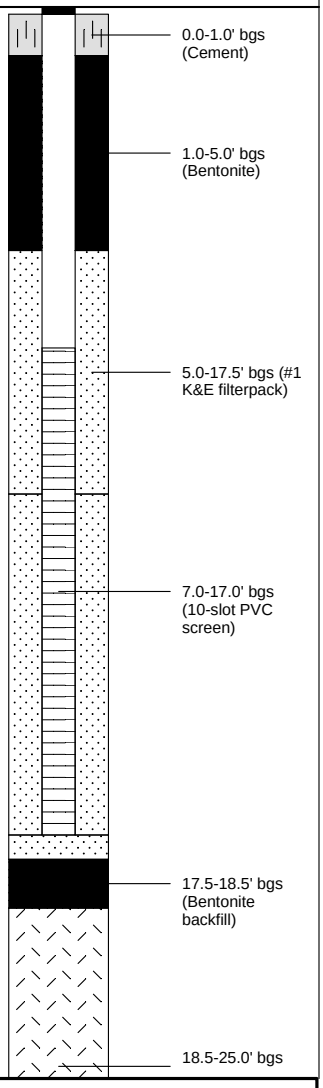
Descriptions By: T. Stevens

Well/Boring ID: **MW-83/84-09**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description
0 / 0				NA			(0.0-0.7) CONCRETE.
				0.0			(0.7-4.0') SAND, fine, subrounded; trace granules, subangular; little silt; poorly sorted; wet; brown (10YR 4/3). Note: Wet at 2.0' bgs.
	1	0.0-5.0	5.0	0.0			
				0.0			
				0.0			(4.0-8.0') SAND, fine to medium, subrounded; and CLAY, low plasticity, slow dilatancy; wet; soft; dark yellowish brown (10YR 4/4).
5 / -5				0.0			
				1.6			
				10.6			
				7.1			(8.0-9.5') SAND, very fine, subrounded; and SILT; non-plastic; rapid dilatancy; well sorted; wet; dark grayish brown (10YR 4/2).
10 / -10	2	5.0-15.0	10.0	11.1			(9.5-15.0') SAND, fine to coarse, subrounded to subangular; trace granules, subangular; poorly sorted; wet; dark gray (10YR 4/1). Note: Strong odor, NAPL impact.
				21.4			
				25.9			
				7.4			Note: Color change to dark yellowish brown at 12.5' bgs.
				7.6			
				2.7			
15 / -15				5.1			(15.0-22.0') CLAY, high plasticity, slow dilatancy; moist; very soft; gray (10YR 5/1).
				2.3			
				4.0			
				1.1			
				2.6			
20 / -20	3	15.0-25.0	10.0	0.2			
				1.9			(22.0-23.0') SAND, medium to very coarse, subrounded to subangular; and



Remarks: Hand Auger to 5.0' bgs.

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Date Start/Finish: 4/16/13-4/16/13
Drilling Company: Stearns Drilling
Driller's Name: Brian Marshall
Drilling Method: Sonic
Sampling Method: Hand Auger/ 4" Core Barrel
Rig Type: Mini Sonic

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 25.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **MW-83/84-09**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
				0.0			PEBBLES, small to medium, subrounded; some granules, subangular; trace silt; poorly sorted; wet; dark grayish brown (10YR 4/2).	(Native backfill)
				0.5			(23.0-24.0') SAND, very fine, rounded; and SILT, low to non-plastic; well sorted; wet; medium stiffl; dark gray (10YR 4/1).	
25 -25				1.6			(24.0-25.0') SAND, very fine to fine, rounded to subrounded; well sorted; wet; dark gray (10YR 4/1).	
							End of boring at 25.0' bgs.	
30 -30								
35 -35								

Remarks: Hand Auger to 5.0' bgs.

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Date Start/Finish: 4/12/13-4/12/13
Drilling Company: Stearns Drilling
Driller's Name: Brian Marshall
Drilling Method: Sonic
Sampling Method: Hand Auger/ 4" Core Barrel
Rig Type: Mini Sonic

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 20.0' bgs
Surface Elevation: NA

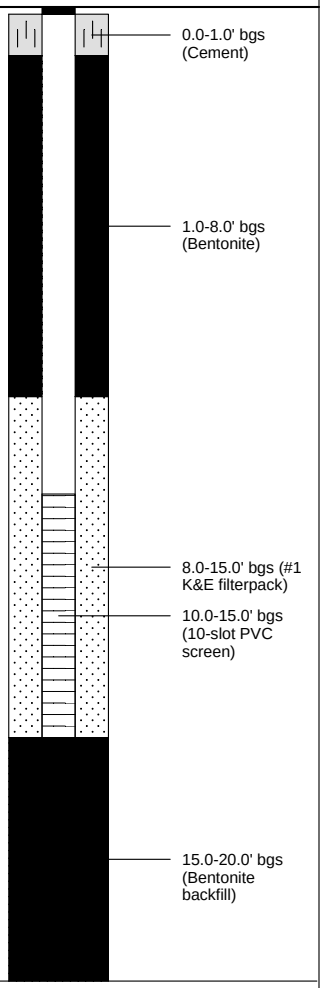
Descriptions By: T. Stevens

Well/Boring ID: **MW-83/84-10**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description
0 / 0				NA			(0.0-1.0) CONCRETE.
				6.3			(1.0-5.0') SAND, fine to medium, subrounded; some silt; poorly sorted; wet; black (10YR 2/1). Note: Slight odor, sheen. Fill.
	1	0.0-5.0	5.0	10.4			
				8.2			Note: Wet at 3.0' bgs.
5 / -5				7.7			
				11.1			(5.0-10.8') SILT, some clay, low plasticity, slow dilatancy; and SAND, very fine, subrounded; well sorted; moist; medium stiff; grayish brown (2.5Y 5/2). Note: Slight odor, sheen.
				6.3			
				13.1			
				14.3			
				3.3			
10 / -10	2	5.0-15.0	9.0	6.6			(10.8-11.1') SAND, medium, subrounded; well sorted; wet; grayish brown (2.5Y 5/2). Note: Strong odor.
				167			(11.1-11.5') SILT, trace clay, non-plastic; and SAND, very fine, subrounded; well sorted; moist; grayish brown (2.5Y 5/2). Note: Strong odor.
				1.6			(11.5-14.5') SAND, medium, subrounded; well sorted; wet; light olive brown (2.5Y 5/3). Note: Slight odor.
				6.6			
15 / -15				23.8			(14.5-20.0') CLAY, high plasticity, no dilatancy; moist; medium stiff; gray (2.5Y 5/1).
				0.0			
				0.0			
	3	15.0-20.0	5.0	0.0			
				0.0			
				0.0			
20 / -20							End of boring at 20.0' bgs.



Remarks: Hand Auger to 5.0' bgs.

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Date Start: 5/21/2013
Date Finish: 5/21/2013
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Sonic
Sampling Method: 6" Core barrel
Rig Type: Mini Sonic
Water Level Start (ft. bgs.): 8.0
Water Level Finish (ft. btoc.): 7.2

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 20.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: MW-83_84-21

Client: RACER Trust

Location: RACER Buick City
Flint, MI

Weather Conditions: 75F, Sunny

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			(0.0-1.0') CONCRETE.		0.0-1.0' bgs (Cement)
				0.0			(1.0-3.5') SAND, very fine to fine, subrounded; little silt; trace clay; well sorted; dry; dark yellowish brown (10YR 4/6).		
	1	0.0-5.0	5.0	0.0			(3.5-3.8') CLAY, high plasticity, slow dilatancy; little very fine sand; subrounded; medium stiff; dry; dark yellowish brown (10YR 4/6).		1.0-5.0' bgs (Bentonite)
				0.0			(3.8-5.0') SAND, very fine to fine, subrounded; well sorted; wet; dark gray (10YR 4/1).		
5 / -5				0.0			(5.0-9.0') CLAY, low plasticity, rapid dilatancy; and SAND, very fine, subrounded; wet; soft; dark yellowish brown (10YR 4/4).		
				0.0					
	2	5.0-10.0	5.0	0.0					5.0-17.0' bgs (#1 K&E filterpack)
				0.0					
				0.0			(5.0-9.0') SAND, fine to coarse, subrounded to subangular; trace granules, subangular; poorly sorted; wet; dark yellowish brown (10YR 4/6). Note: Wet at 8.0' bgs.		
10 / -10				0.0					
				0.0					
	3	10.0-15.0	5.0	0.0					7.0-17.0' bgs (10-slot PVC screen)
				0.0					
				0.0			NOTE: Coarsens to medium to very coarse sand, little granules from 14.0-15.0' bgs.		
15 / -15				0.0			(15.0-16.5') SAND, very fine, subrounded to rounded; and SILT, non-plastic, rapid dilatancy; wet; dark gray (10YR 4/1).		
				0.0			(16.5-17.0') SAND, medium to coarse, subrounded to subangular; poorly sorted; wet; dark yellowish brown (10YR 4/6).		
	4	15.0-20.0	5.0	0.0			(17.0-20.0') CLAY, high plasticity, no dilatancy; dry; medium stiff to stiff; dark gray (10YR 4/1).		
				0.0					
				0.0					
20 / -20							End of boring at 20.0' bgs.		

Remarks: Hand Auger to 5.0' bgs.

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Date Start: 5/21/2013
Date Finish: 5/21/2013
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Sonic
Sampling Method: 6" Core barrel
Rig Type: Mini Sonic
Water Level Start (ft. bgs.): 10.0
Water Level Finish (ft. btoc.): 7.35

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 20.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: MW-83_84-22

Client: RACER Trust

Location: RACER Buick City
Flint, MI

Weather Conditions: 85F, Cloudy

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			(0.0-1.0') CONCRETE.		0.0-1.0' bgs (Cement)
	1	0.0-5.0	5.0	0.0			(1.0-6.0') SAND, fine to coarse, subrounded to subangular; little granules to small pebbles, subrounded; trace silt and clay; poorly sorted; dry; black (10YR 2/1) to dark gray (10YR 4/1). Note: Slight odor, wood debris.		1.0-5.0' bgs (Bentonite)
				0.0					
				0.0					
5 / -5				0.0					
	2	5.0-10.0	5.0	0.0			(6.0-9.0') SAND, very fine to fine, rounded to subrounded; and SILT, non-plastic, rapid dilatancy; poorly sorted; moist; dark grayish brown (10YR 10YR 4/2). Note: Slight odor.	▼	5.0-17.0' bgs (#1 K&E filterpack)
				0.0					
				0.0					
10 / -10				0.0			(9.0-15.0') SAND, fine to coarse, subrounded; trace silt; well sorted; wet; dark gray (10YR 4/2). Note Moderate odor, sheen. Wet at 10.0' bgs.	▼	
	3	10.0-15.0	5.0	0.0					7.0-17.0' bgs (10-slot PVC screen)
				0.0					
				0.0					
15 / -15				0.0			(15.0-16.0') SILT, trace clay, non-plastic, rapid dilatancy; and SAND, very fine, subrounded; well sorted; wet; dark yellowish brown (10YR 4/4).		
	4	15.0-20.0	5.0	0.0			(16.0-20.0') CLAY, high plasticity, no dilayancy; dry; soft to medium stiff; dark gray (10YR 4/2).		
				0.0					
				0.0					
20 / -20				0.0			End of boring at 20.0' bgs.		

Remarks: Hand Auger to 5.0' bgs.

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Date Start: 5/21/2013
Date Finish: 5/21/2013
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Sonic
Sampling Method: 6" Core barrel
Rig Type: Mini Sonic
Water Level Start (ft. bgs.): 10.0
Water Level Finish (ft. btoc.): 6.18

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 16.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: MW-83_84-23

Client: RACER Trust

Location: RACER Buick City
Flint, MI

Weather Conditions: 80F, Sunny

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0.0-5.0	5.0	NA			(0.0-5.0') CONCRETE. Note: Footing.		0.0-1.0' bgs (Cement); 1.0-4.0' bgs (Bentonite)
5 / -5	2	5.0-10.0	5.0	0.0 0.0 0.0 0.0 0.0			(5.0-15.5') SAND, fine to coarse, subrounded to rounded; little silt; well sorted; wet; dark yellowish brown (10YR 4/6).		4.0-16.0' bgs (#1 K&E filterpack)
10 / -10	3	10.0-16.0	6.0	0.0 0.0 0.0 0.0 0.0 0.0			NOTE: Wet at 10.0' bgs.		6.0-16.0' bgs (10-slot PVC screen)
15 / -15							(15.5-16.0') CLAY, high plasticity, no dilayancy; moist; soft; dark gray (10YR 4/1).		
20 / -20	4						End of boring at 16.0' bgs.		

Remarks: Hand Auger to 5.0' bgs.

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Date Start: 9/11/13 **Date Finish:** 9/11/13 **Drilling Company:** Cascade **Driller's Name:** Dan O'Mara **Drilling Method:** Sonic **Sampling Method:** 4" Core Barrel **Rig Type:** Mini Sonic **Water Level Start (ft. bgs.):** 10.5 **Water Level Finish (ft. btoc.):** 9	**Northing:** 563938.02 **Easting:** 13305041.75 **Casing Elevation:** 746.50 **Borehole Depth (ft. bgs.):** 17 **Surface Elevation:** 746.80 **Descriptions By:** Drew Shaw	**Well/Boring ID:** **MW-83/84-26** **Client:** RACER Trust **Location:** Buick City Flint, MI **Weather Conditions:** 85 Degrees F, Sunny

DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0	745	1	0.0-5.0'	3.0	NA NA 5.5 25.1 24.6			(0.0-1.8') CONCRETE (1.8-15.0') SAND, very fine to medium, subround; trace small pebbles, subround; poorly sorted; dry; brown (10YR 4/3).		Protective Casing (1.0-5.0') Bentonite (0.3-7.0') 2" Sch 40 PVC Well Casing
5	740	2	5.0-15.0'	8.0	25.1 22.1 32.1 41.5 35.1 40.1 45.5 50.5 5.5 5.0			Note: Wet at 10.5 ft bgs. Note: Black staining from 12.0-12.5 ft bgs. Note: Black Staining from 14.0-14.2 ft bgs.		(5.0-17.0') Filter Pack K&E #1 (7.0-17.0') 2" Sch 40 PVC 0.010 Slot Well Screen
10	735	3	15.0-17.0'	2.0	0.0 0.0			(15.0-17.0') CLAY, high plasticity; no dilatancy; dry; stiff; dark gray (10YR 4/1).		
15	730							End of Boring at 17.0' bgs.		
20										

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Remarks: Hand Augered to 5.0' bgs.
MW-83/84-26(2-4) collected at 1430.
MW-83/84-26(8-10) collected at 1435.
MW-83/84-26(12-13) collected at 1440.

Date Start/Finish: 4/12/13-4/12/13
Drilling Company: Stearns Drilling
Driller's Name: Brian Marshall
Drilling Method: Sonic
Sampling Method: Hand Auger/ 4" Core Barrel
Rig Type: Mini Sonic

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 17.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **SB-83/84-08**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0 / 0								
				NA			(0.0-1.0) CONCRETE.	
				0.0			(1.0-10.0') SAND, fine to medium, subrounded; and CLAY, low plasticity, slow dilatancy; trace silt; poorly sorted; moist; dark yellowish brown (10YR 4/4).	
	1	0.0-5.0	5.0	0.0				
				0.0				
				0.0				
5 / -5				0.0				
				0.0				
				0.0				
				0.0				
				0.0				
				0.0				
10 / -10				0.0			(10.0-12.0') CLAY, some silt, medium plasticity, moderate dilatancy; little fine sand, subrounded; moist; soft; dark yellowish brown (10YR 4/4).	
	2	5.0-17.0	6.5	0.0			(12.0-16.0') SAND, medium to coarse, subrounded to angular; little silt; poorly sorted; wet; dark yellowish brown (10YR 4/6). Note: Wet at 12.0' bgs.	
				0.0				
				0.0				
15 / -15				0.0				
				0.0				
				0.0			(16.0-17.0') CLAY, high plasticity, no dilatancy; moist; stiff; grayish brown (10YR 5/2).	
							End of boring at 17.0' bgs.	
20 / -20								

Remarks: Hand Auger to 5.0' bgs.

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Date Start: 5/22/2013
Date Finish: 5/22/2013
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Sonic
Sampling Method: 6" Core barrel
Rig Type: Mini Sonic
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 10.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **SB-83_84-17**

Client: RACER Trust

Location: RACER Buick City
Flint, MI

Weather Conditions: 70F, Cloudy

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0							(0.0-1.0') CONCRETE.		
	1	0.0-5.0	5.0	0.0 0.0 0.0 0.0			(1.0-10.0') SAND, fine to medium, subrounded; some silt, trace clay, trace granules, poorly sorted; dry; yellowish brown (10YR 5/6) to black (10YR 2/1).		
5 / -5	2	5.0-10.0	5.0	0.0 0.0 0.0 0.0 0.0					
10 / -10							End of boring at 10.0' bgs due to refusal.		
15 / -15									
20 / -20									

Remarks: Hand Auger to 5.0' bgs.

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Date Start: 9/11/13
Date Finish: 9/11/13
Drilling Company: Cascade
Driller's Name: Dan O'Mara
Drilling Method: Hand Auger
Sampling Method: Hand Auger
Rig Type: Sonic
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: 564197.83
Easting: 13305455.87
Casing Elevation: NA

Borehole Depth (ft. bgs.): 3.1
Surface Elevation: 746.16

Descriptions By: Drew Shaw

Well/Boring ID: **SB-83/84-28**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: 85 Degrees F, Sunny

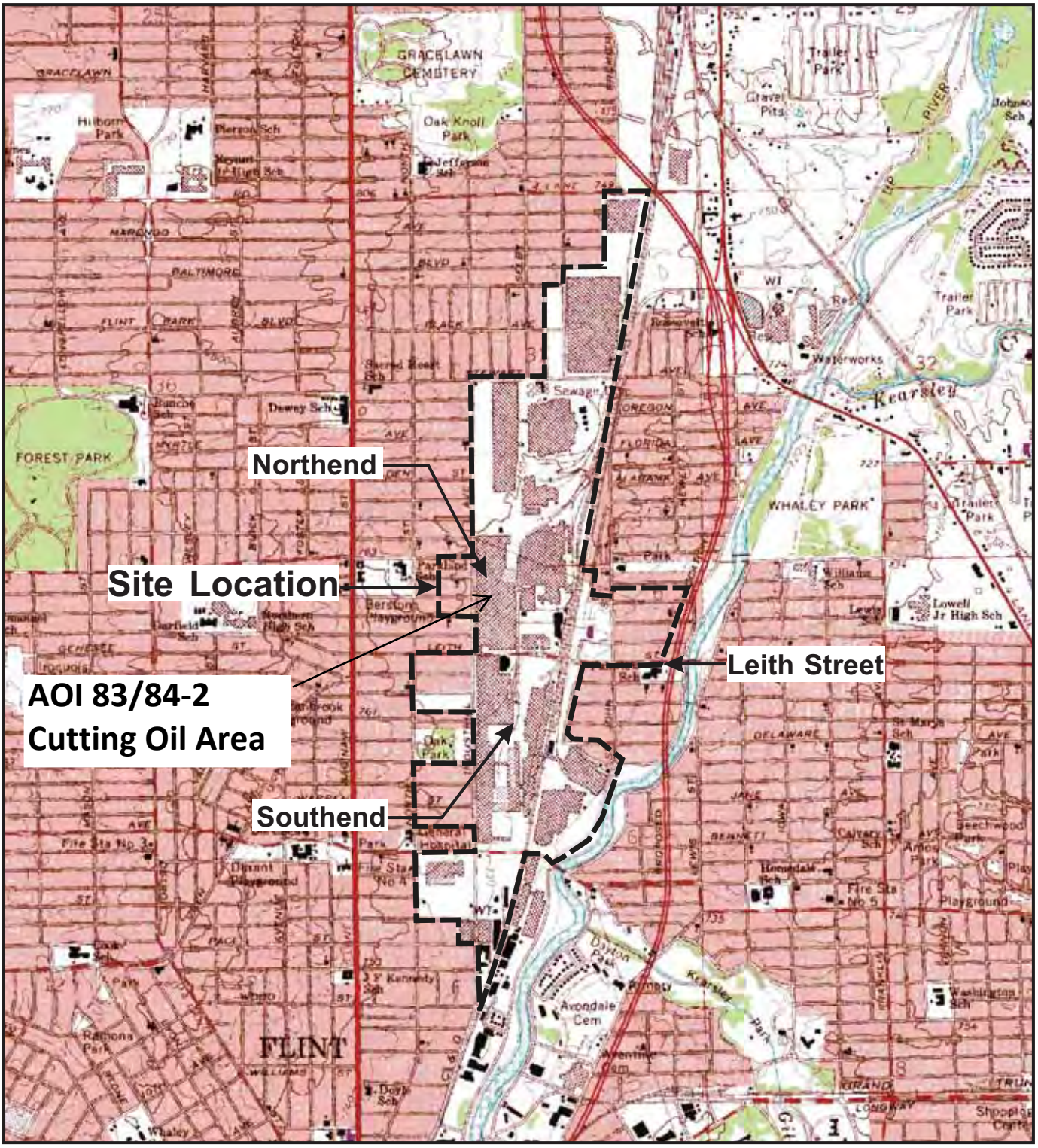
DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 745	1	0.0-3.1'	2.0'	NA NA NA			(0.0-1.5') CONCRETE (1.5-3.1') SAND, very fine to medium, subround; trace granules, subround; trace clay; poorly sorted; dry; dark grayish brown (10YR 4/2).		Borehole abandoned with bentonite
5 / 740							End of boring at 3.1' bgs due to refusal.		
10 / 735									
15 / 730									
20									

Remarks: Refusal at 3.1' bgs.

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Figures



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quad., Flint North, Mich. (1969, Photorevised 1975).

2000' 0 2000'

Approximate Scale: 1" = 2000'



Area Location

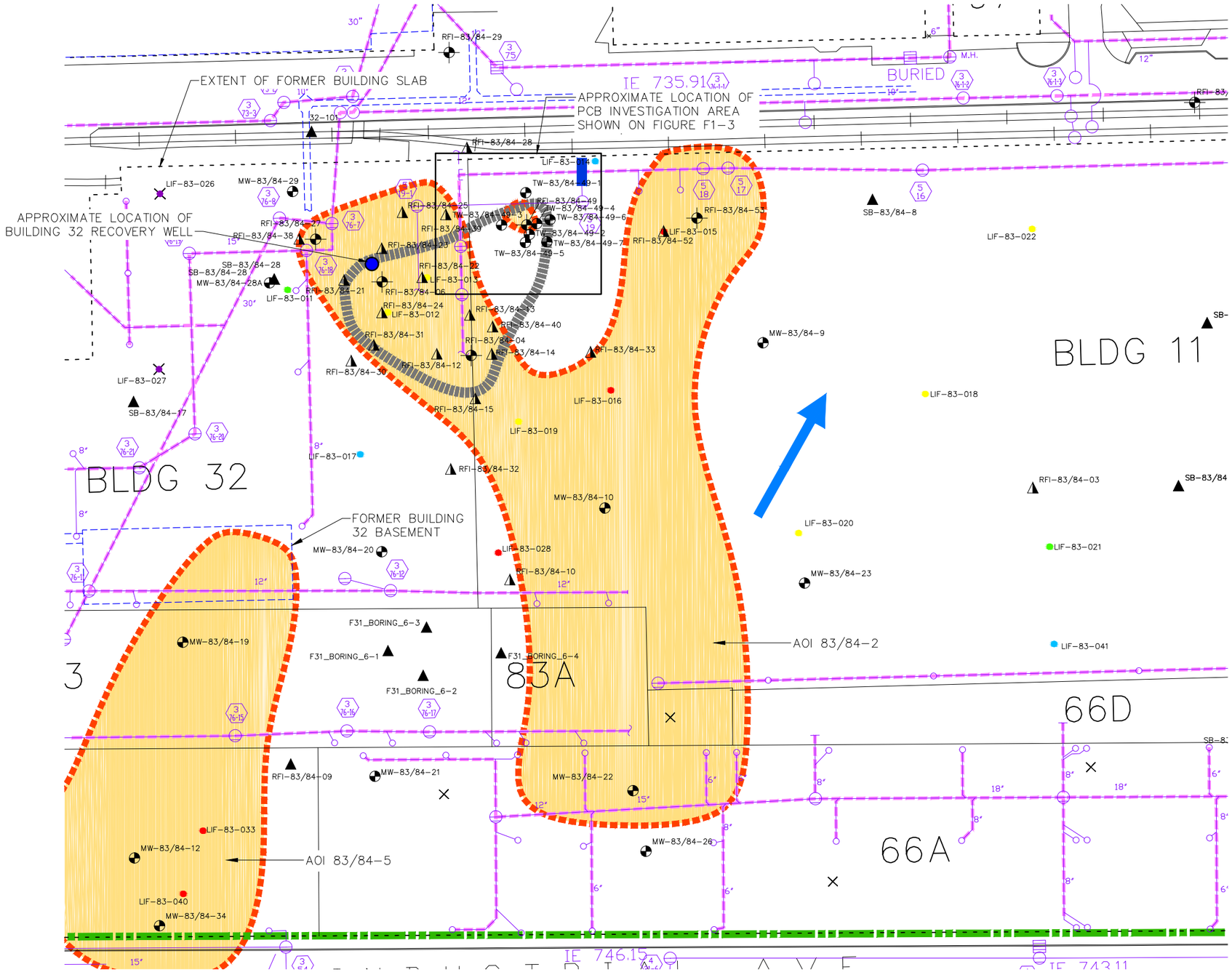
RACER TRUST
BUICK CITY, FLINT, MICHIGAN

SITE LOCATION MAP

ARCADIS

FIGURE
F1-1

03/12/2012 SYRACUSE, NY-ENV/CAD-141-DJHOWES
B0064410/2012/01202/CDR/64410N01.CDR



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- STORM SEWER LINE
- GENERAL GROUNDWATER FLOW DIRECTION
- ABANDONED STORM SEWER LATERALS

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200

REFUSAL BORINGS

- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 40' 80'
APPROXIMATE SCALE IN FEET

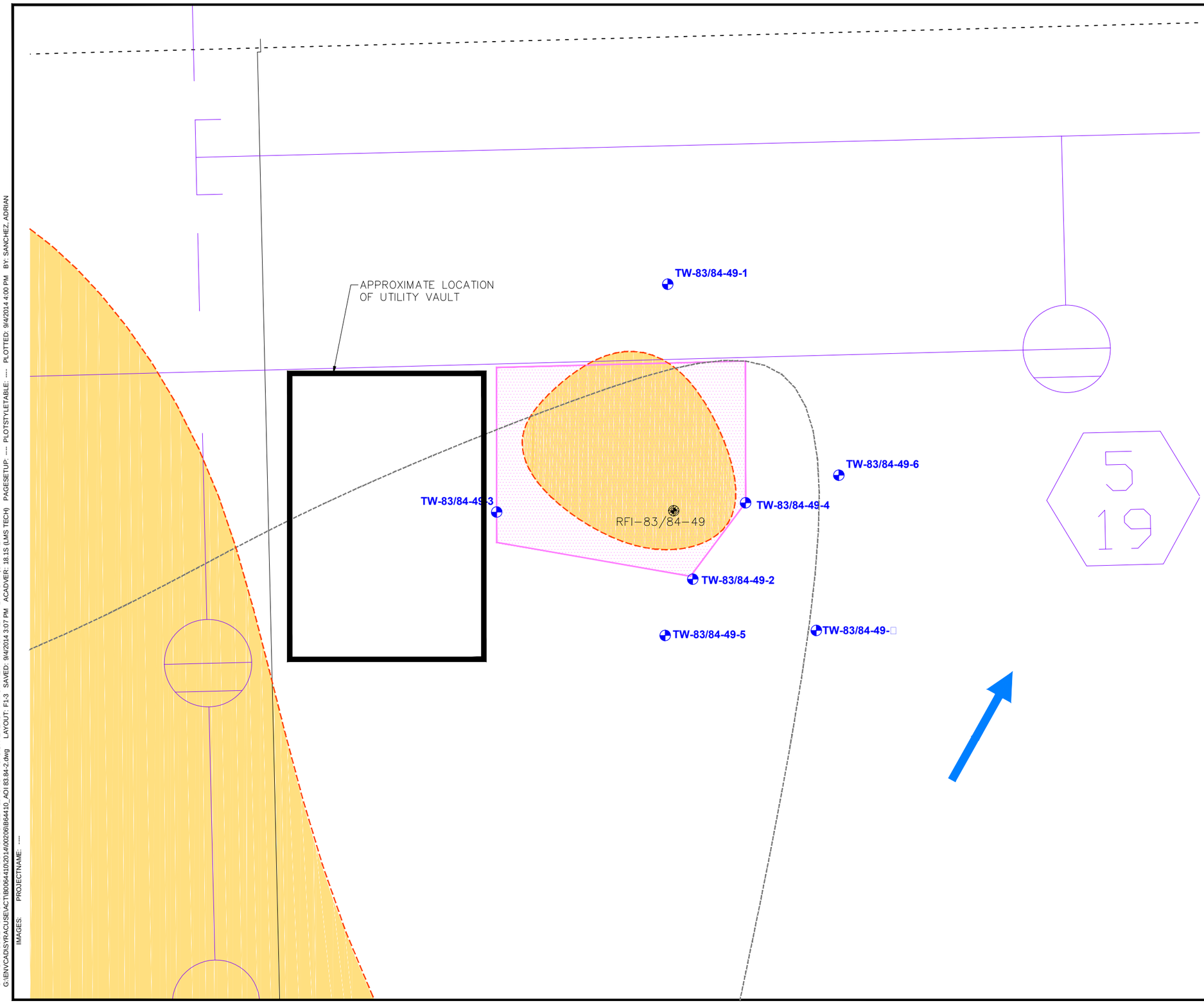
RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 83/84-2 INVESTIGATION LOCATIONS AND LNAPL E□TENTS

ARCADIS

FIGURE
F1-2

CITY: SYRACUSE DV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C.KIKER TM: C. KIKER LYR: ON=*OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\0064410\2014\0022061B64410_AOI 83.84-2.dwg LAYOUT: F1-2 SAVED: 9/4/2014 3:07 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 9/4/2014 4:00 PM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME: ----



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- TEMPORARY WELL LOCATION
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- DEMOLISHED BUILDING
- PROPOSED AREA OF EXCAVATION
- STORM SEWER LINE
- GENERAL GROUNDWATER FLOW DIRECTION

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 5' 10'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 83/84-2
PCB DELINEATION LOCATIONS

ARCADIS

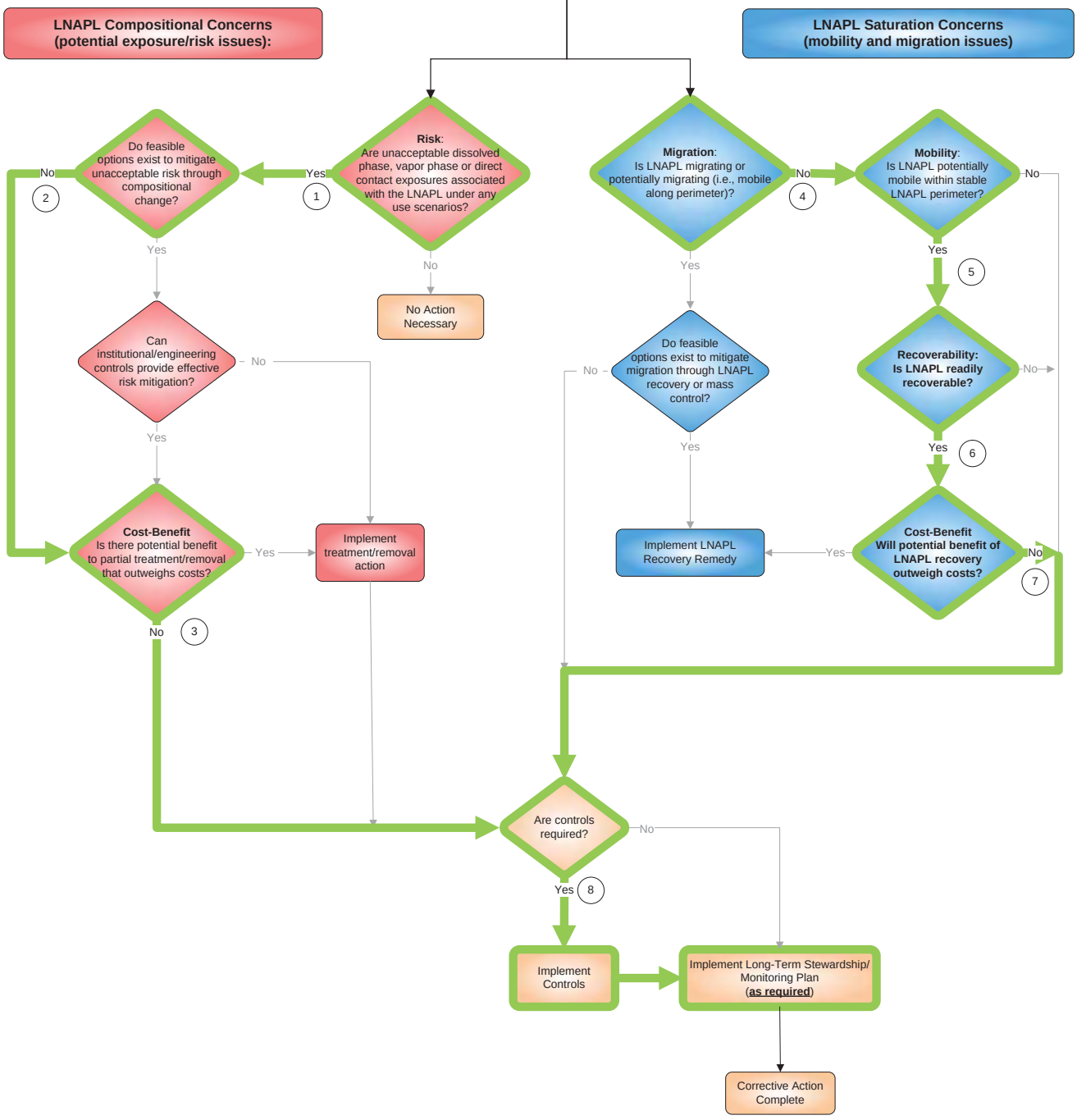
FIGURE
F1-3

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\0064410\20140\00206\B64410_AOI 83.84-2.dwg LAYOUT: F1-3 SAVED: 9/4/2014 3:07 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 9/4/2014 4:00 PM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME: ----

Attachment 2

LNAPL Remedial Decision Tree

Attachment 2 LNAPL Remedial Decision Tree Priority #7 – AOI 83/84-2 Cutting Oil Area



NOTES

(#) NOTES: See Page F2-2

Please see Appendix W for the LNAPL Remedial Decision Tree Template that lists additional sources of pertinent information used in the evaluation of the decision points (i.e. tables).

Attachment 2 Notes

Priority #7 - AOI 83/84-2 Cutting Oil Area

Background: The area of interest (AOI) 83/84-2 Cutting Oil light non-aqueous phase liquid (LNAPL) Area (AOI 83/84-2 LNAPL Area) is located in the southern portion of Building 32, which is part of the former Factory 83/84 Area located in the southwestern portion of the Northend of the Site. Historically, the former Factory 83/84 Area was used for the manufacture of front- and rear-axle assemblies. From 1981 to 2010, the area was used for manufacturing "white metals" components such as water pumps, pistons, and manifolds. Former Building 32 includes two basement areas where product was observed on standing water in the tunnel of former Building 32. The presence of the AOI 83/84-2 LNAPL Area is presumably due to historical releases associated with operations in this area. There are currently no buildings within the AOI 83/84-2 LNAPL Area and the area is beneath the former Building 32 slab.

Geology and Hydrogeology: The soils at AOI 83/84-2 consists of primarily fine to medium sand to silty sands to a depth of approximately 8 feet bgs that are underlain by interbedded sands and silty clays/clays to depths of 25 feet bgs. Depth to groundwater in this area varies greatly and has been measured as shallow as 6.03 feet bgs, as deep as 14.56 feet bgs, and averages around 8 to 10 feet bgs. Based on historic fluid level gauging data, groundwater flow in this portion of the Site is generally to the southeast.

LNAPL Characteristics: Logs in the AOI 83/84-2 LNAPL Area show evidence of LNAPL impacts from 5 to 15 feet bgs in the eastern portion of the LNAPL Area and 5 to 12 feet in the western portion of the LNAPL Area. Thicknesses of product greater than 0.1 feet have been measured at six of the monitoring wells (RFI-83/84-04, RFI-83/84-06, RFI-83/84-27, RFI-83/84-49 RFI-83/84-53, and MW-83/84-10). During the last three years, thicknesses of LNAPL have ranged from approximately 0.05 feet (RFI-83/84-04) to 6.96 feet. At AOI 83/84-2, the LNAPL has a viscosity ranging from 37.6 centipoise (cp) (RFI-83/84-06) to 102.94 cp (RFI-83/84-53), interfacial tension ranging from 23 dynes/centimeter (cm) (RFI-83/84-49) to 27 dynes/cm (RFI-83/84-06), and a specific gravity ranging from 0.89 (RFI-83/84-06) to 0.90 (RFI-83/84-49). In addition, the LNAPL also contains lead at concentrations that exceed RCRA toxicity characteristic criteria at one location (MW-83/84-10); however, TCLP analysis has not been conducted. PCBs were detected in four of the LNAPL samples at concentrations ranging from 1 to 62.4 parts per million.

1) *Are unacceptable dissolved phase, vapor phase, or direct contact exposures associated with the LNAPL under any use scenarios?*

   YES – The following potential risk/exposure concerns are associated with the AOI 83/84-2 LNAPL Area:

   - Particulate Soil Inhalation (Ambient Air) Concerns: The concentrations manganese detected in soil at the AOI 83/84-2 exceed the particulate soil inhalation criteria. Engineering and institutional controls will be implemented to control this exposure risk.
   - Volatile Soil Inhalation (Ambient Air) Concerns: The concentrations of phenanthrene detected in soil at AOI 83/84-22 exceed the infinite source volatile inhalation criteria. Additional evaluation of this exceedance will be completed to determine an appropriate remedy recommendation.
   - Direct Contact: Select SVOCs and metals were detected in soil at concentrations that exceed direct contact criteria. In addition, concentrations of PCBs in LNAPL exceed direct contact criteria. The AOI 83/84-2 LNAPL Area is located beneath the former Factory 83/84 slab. The shallowest LNAPL impacts are located approximately 5 feet below ground surface, and represent a potential concern for future construction or utility workers. This PCB exposure risk will be addressed by completing a targeted excavation as presented in the 761.61 (c) determination in **Attachment 3** and the SVOCs, arsenic, chromium, and lead exposure risk will be addressed by maintaining the surface cover and institutional controls.
   - Potential Volatilization to Indoor Air Concerns for Future Structures: Theoretically, there is a potential unacceptable vapor phase exposure risk associated with methane for future redevelopment scenarios; however, this will be addressed by the proposed institutional controls.

2) *Do feasible options exist to mitigate unacceptable risk through compositional change?*

   NO – The following is a general discussion regarding the feasibility of various compositional change remediation strategies for the AOI 83/84-2 area:

   - Enhanced dissolution and recovery via surfactant or hot water flushing is not likely feasible. Bench-scale testing completed on similar LNAPL (hydraulic oil) at the Southend of the Site did not result in any increased recovery. In addition use of surfactants would also mobilize the PCBs in the LNAPL.
   - LNAPL constituents of cutting oil have low volatility rendering remedial technologies that rely on vapor-phase partitioning infeasible on a technical basis.

- In situ thermal remediation may be technically feasible for the area; however, it is not a viable option based on the presence of PCBs in the LNAPL. In addition, it does not represent an economically feasible remedial alternative given the large area that would need to be addressed.
- Targeted in-situ soil mixing/land farming using biological additives to address the petroleum constituents; is not a viable option due to the presence of PCBs.

3) Is there a potential benefit to partial treatment/removal that outweighs costs?

NO – The compositional concerns can be addressed as follows:

- Particulate Soil Inhalation - Based on the current understanding of risk conditions, the soil inhalation risk can be effectively mitigated through engineering and institutional controls.
- Volatile Soil Inhalation – Additional evaluation is required to determine an appropriate remedy; however, this exceedance is located in a soil sample collected from 3 to 5 feet bgs which appears to be above the LNAPL impact and likely unrelated. Therefore, partial treatment or removal of LNAPL would not address this risk.
- Direct Contact – The direct contact concerns associated with SVOCs, arsenic, chromium, and lead will be addressed by maintaining the existing surface cover and institutional controls. The direct contact concerns associated with PCBs will be addressed by completing an excavation as presented in **Attachment 3.**
- Potential Volatilization to Indoor Air Concerns for Future Structures - Based on the current understanding of risk conditions, the potential volatilization to indoor air risk can be effectively mitigated through institutional controls.

4) Is LNAPL migrating or potentially migrating (i.e. mobile along the perimeter)?

NO – While the LNAPL is mobile in the vicinity of the Outfall 003 and 005 storm sewers, the AOI 83/84-2 LNAPL Area appears to be stable. This finding is supported by the following lines of evidence:

- Well Gauging Data: Sentinel wells located downgradient of the AOI 83/84-2 LNAPL Area have remained free of LNAPL since monitoring began approximately 10 years ago.
- Age of LNAPL Release: The AOI 83/84-2 LNAPL area was identified in 1990. Operations began in this portion of the Site in the 1950's and ceased in this portion of the Site ceased in 2010. LNAPL bodies typically stabilize within 2 to 5 years after a release has been stopped (ITRC, 2012).

5) *Is LNAPL mobile within the stable LNAPL perimeter?*

YES – LNAPL was infiltrating the Outfall 003 and 005 storm sewers, which have been bulkheaded in this area. In addition, LNAPL is present at monitoring wells in the AOI 83/84-2 area indicating that the LNAPL is mobile within the stable perimeter.

6) Is LNAPL readily recoverable?

YES – The results of historic interim measures (IM) indicate that portions of the AOI 83/84-2 LNAPL Area may be readily recoverable. These activities are summarized below:

- During the Site-wide LNAPL monitoring program conducted from 2003 through 2004, a total of approximately 7 gallons of LNAPL was recovered during quarterly bailing events in the AOI 83/84-2 area.
- In 1990, a product recovery well was installed to recover LNAPL beneath the floor of former Building 32. The LNAPL was then piped to the Site's process waste system. The total amount of LNAPL recovered is unknown.

In addition, the LNAPL transmissivity quantified at RFI-83/84-53 was 4.1 ft^2/day indicating that recovery is likely practical in the southern portion of the LNAPL area. However, the LNAPL transmissivity quantified at MW-83/84-10 and RFI-83/84-27 are below both the ITRC and MDEQ draft standard threshold values, indicating that recover is not practical in the northern and eastern portions of the LNAPL area.

7) Will the potential benefit of LNAPL recovery outweigh costs?

NO – Compositional and saturation concerns can be addressed through the proposed targeted excavation and engineering and institutional controls.

8) Are controls required?

YES – The following AOI-specific institutional and engineering controls, in addition to the Site-wide institutional controls, are proposed for the AOI 83/84-2 area to limit future exposure:

Attachment 2 Notes

Priority #7 - AOI 83/84-2 Cutting Oil Area

- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads (as shown on **Figure 5 of the main report**).
- Prohibit any excavation or other intrusive activity that could affect the integrity of the surface cover that is present (as shown on **Figure F3-1**) to prevent direct contact with contaminated material except with using appropriate health and safety measures during short-term construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the surface cover, that could affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original barrier within a reasonable timeframe. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the NREPA.
- Notify future owners of the presence of PCBs, and
- Restrict the area containing PCB-impacted LNAPL to low occupancy (as shown on **Figure F3-2**).

Attachment 3

761.61(c) Risk Based Cleanup and Disposal Request

Priority #7 – AOI 83/84-2 Cutting Oil LNAPL Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 3 – 761.61(c) Risk Based Cleanup and Disposal Request

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This attachment presents the information required to support a 761.71(c) determination for the Area of Interest (AOI) 83/84-2 light non-aqueous phase liquid (LNAPL) Area.

1. Area Background and History

The AOI 83/84-2 LNAPL Area is located at the Northend of the Site in the former Factory 83/84 area and is likely associated with historic releases associated with operations. LNAPL associated with the AOI 83/84-2 LNAPL Area has been identified in monitoring wells RFI-83/84-04, RFI-83/84-06, RFI-83/84-27, RFI-83/84-49, RFI-83/84-53, MW-83/84-10, and MW-83/84-22.

2. Summary of SOPs and Investigation Results

AOI 83/84-2 has been previously investigated as part of the Site's RCRA Facility Investigation activities. In 2013, additional sampling was conducted to refine the conceptual site model. The RFI Work Plan presents the standard operating procedures, field sampling procedures, quality assurance/quality control procedures, etc. used during the investigation. The results of the investigations (including laboratory analytical reports) are presented in this report, as well as the RFI Phase I and RFI Phase II reports.

3. Nature of Contamination

At AOI 83/84-2, samples of LNAPL, soil and groundwater have been analyzed for PCBs. Below is a brief summary of results.

- LNAPL samples were collected from five monitoring wells (MW-83/84-10, RFI-83/84-06, RFI-83/84-27, RFI-83/84-49, and RFI-83/84-53) (**Figure F3-1**). PCBs were detected in four of the samples at concentrations ranging from 1 part per million (ppm) to 62.4 ppm.
- A total of 85 soil samples collected from the AOI 83/84-2 Area were analyzed for PCBs. PCBs were detected in 15 of the samples, 14 of which detected PCBs at concentrations less than 1 ppm. The maximum detection of PCBs in soil was 3.6 ppm.

- Three groundwater samples collected from side gradient and downgradient wells (RFI-83/84-02, RFI-83/84-27, and RFI-83/84-29) in the AOI 83/84-2 Area were analyzed for PCBs. No PCBs were detected in the groundwater samples.

4. Extent of Impacts

At AOI 83/84-2, PCB impacts are associated with the LNAPL. **Figure F3-1** shows the approximate extent of the AOI 83/84-2 LNAPL Area. As discussed above, LNAPL has been detected in seven monitoring wells at AOI 83/84-2. The concentrations of PCBs detected in the LNAPL samples vary within the AOI 83/84-2 LNAPL Area. PCBs were not detected at RFI-83/84-27 and were detected at concentrations of 1 ppm at RFI-83/84-53, 6.1 ppm at RFI-83/84-06, 16 ppm at MW-83/84-10, and 62.4 ppm at RFI-83/84-49.

In order to further delineate the PCB impacts at RFI-83/84-49, seven temporary wells were installed (**Figure F3-2**). At each temporary well location, four to six soil samples were collected and submitted for PCB analysis to vertically profile the PCB impacts in soil. A total of 41 soil samples were collected from the original RFI-83/84-49 location and the seven temporary wells. Six of the soil samples detected PCBs at concentrations ranging from 0.1 to 3.6 ppm. To date, no LNAPL has been detected in the seven temporary wells, suggesting that the LNAPL mobility in the vicinity of RFI-83/84-49 is minimal.

The depth to LNAPL is approximately 8 to 10 feet bgs in both the eastern and western portions of the LNAPL area. The depth of impacts is typically 5 to 15 feet bgs in the eastern portion of the LNAPL area and 5 to 12 feet in the western portion of the LNAPL area.

5. Risk Based Procedure

A targeted excavation is proposed to address the PCB impacts at RFI-83/84-49 to remove impacts greater than 25 ppm. The PCB impacts have been delineated by temporary wells as shown on **Figure F3-2**; however, due to the presence of subsurface obstructions (utilities and a vault) to the north and east, the extent of the excavation is expected to be as shown on **Figure F3-2.**

The scope of work for additional delineation will be included in a remedy implementation work plan. The work plan will include the detailed scope for the excavation activities; however a brief summary of the plan is provided below:

- Complete investigation work necessary to refine the extents of the excavation.
- Prior to excavation, LNAPL will be removed from wells in the area of excavation to minimize accumulation during excavation.
- Complete excavation to the water table (that averages a depth of 10 feet bgs). It is planned that the excavation will be completed when the water table is at its lowest to maximize removal of impacted soils.
- LNAPL-impacted soils removed during remediation activities will be characterized and disposed of using “as found” concentrations.

Following completion of the targeted excavation, a portion of AOI 83/84-2 will be restricted to low occupancy use. Additional deed restrictions placed on the AOI 83/84-2 LNAPL Area to protect future users from PCB impacts will include the Site-wide deed restrictions as noted in the main report and these AOI-specific deed restrictions:

- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads (as shown on **Figure 5 of the main report**).
- Prohibit any excavation or other intrusive activity that could affect the integrity of the surface cover that is present (as shown on **Figure F3-1**) to prevent direct contact with contaminated material except with using appropriate health and safety measures during short-term construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the surface cover, that could affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original barrier within a reasonable timeframe. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the NREPA.
- Notification to future owners of the presence of PCBs, and
- Restrict the area containing PCB-impacted LNAPL to low occupancy (as shown on **Figure F3-1**).

6. Evaluation of Alternatives

The following technologies were evaluated to address LNAPL at AOI 83/84-2:

- Targeted in-situ soil mixing/land farming uses biological additives to address the petroleum constituents; however, the PCBs would remain and could become mobilized.

- Enhanced dissolution and recovery via surfactant or hot water flushing is not likely feasible. Bench-scale testing completed on similar LNAPL (hydraulic oil) at the Southend of

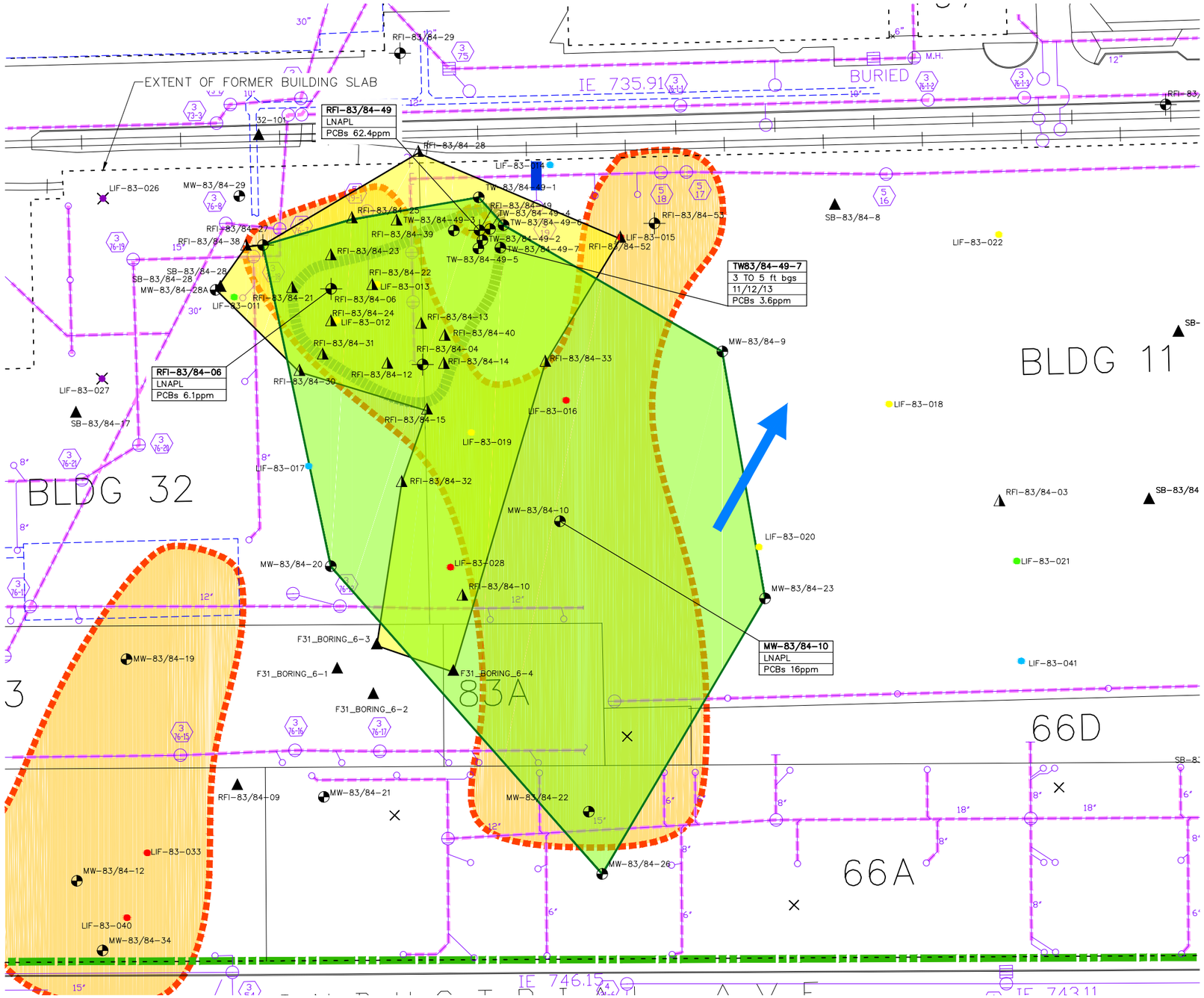
the Site did not result in any increased recovery. In addition, use of surfactants would also mobilize the PCBs in the LNAPL.

- In situ thermal remediation may be technically feasible for the area; however, it is not a viable option based on the presence of PCBs in the LNAPL. In addition, it does not represent an economically feasible remedial alternative given the relatively large area that would need to be addressed in order to avoid the generation of dioxins.

- LNAPL constituents at AOI 83/84-2 have low volatility rendering remedial technologies that rely on vapor-phase partitioning infeasible on a technical basis.

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Figures



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- PROPOSED AREA RESTRICTED TO LOW OCCUPANCY
- PROPOSED AREA FOR SURFACE COVER REQUIREMENT
- STORM SEWER LINE
- GENERAL GROUNDWATER FLOW DIRECTION
- ABANDONED STORM SEWER LATERALS

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200

REFUSAL BORINGS

- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 40' 80'
APPROXIMATE SCALE IN FEET

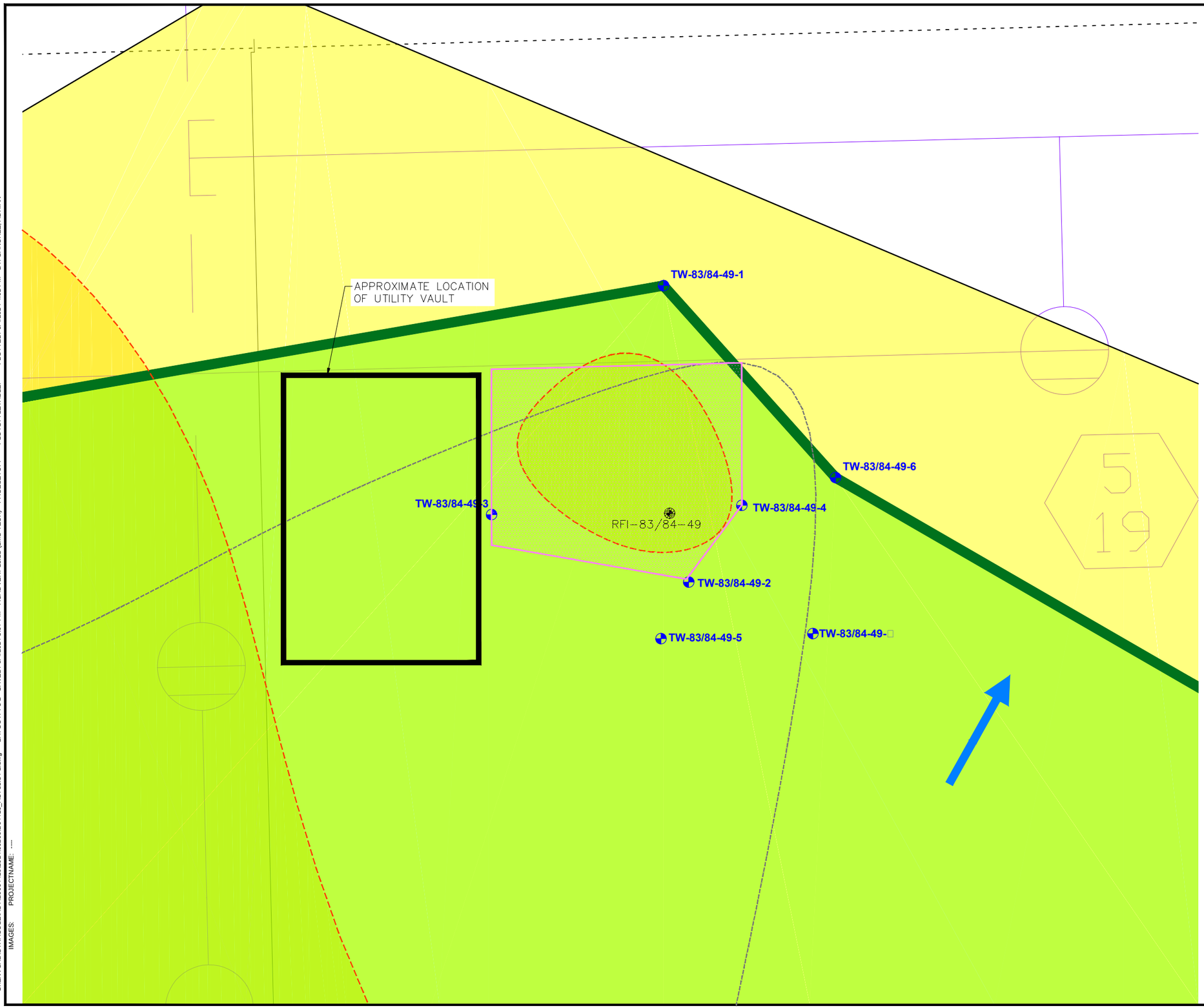
RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 83/84-2
PCB CONCENTRATIONS IN LNAPL AND EXTENTS OF PROPOSED RESTRICTIONS

ARCADIS

FIGURE
F3-1

CITY: SYRACUSE DV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
G:\ENV\CAD\SYRACUSE\ACTIB\00644\10\20141002\06\B64410_AOI 83.84-2.dwg LAYOUT: F3-1 SAVED: 9/4/2014 3:07 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 9/4/2014 4:00 PM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME: ----



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- TEMPORARY WELL LOCATION
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- PROPOSED AREA RESTRICTED TO LOW OCCUPANCY
- PROPOSED AREA FOR SURFACE COVER REQUIREMENT
- PROPOSED AREA OF EXCAVATION
- STORM SEWER LINE
- GENERAL GROUNDWATER FLOW DIRECTION
- ABANDONED STORM SEWER LATERALS

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 5' 10'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 83/84-2
PCB DELINEATION LOCATIONS AND EXTENT OF PROPOSED EXCAVATION

ARCADIS

FIGURE
F3-2

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIVE\B0064410\2014\00206\B64410_AOI 83.84-2.dwg LAYOUT: F3-2 SAVED: 9/4/2014 3:07 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ----
IMAGES: PROJECTNAME: ----
PLOTTED: 9/4/2014 4:01 PM BY: SANCHEZ, ADRIAN

Attachment 4

Remedy Recommendation

Priority #7 - AOI 83/84-2 Cutting Oil LNAPL Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 4 – Recommended Remedy

This attachment presents the recommended remedies for the area of interest (AOI) 83/84-2 Cutting Oil light non-aqueous phase liquid (LNAPL) Area (AOI 83/84-2 LNAPL Area).

1. Compositional and Saturation Concerns

The LNAPL Decision Tree Analysis presented in **Attachment 2** identified particulate soil inhalation, volatile soil inhalation, direct contact and potential volatilization to indoor air for future structures as compositional concerns for AOI 83/84-2. Mobility was identified as a saturation concern due to the infiltration of LNAPL to the Outfall 003 or Outfall 005 storm sewers; however, the storm sewers in the AOI 83/84-2 area have been bulkheaded.

2. Remedy Recommendation Rationale

The remedies recommended to address the compositional and saturation concerns associated with the AOI 83/84-2 LNAPL Area are targeted excavation and engineering and institutional controls. These remedies are further discussed in Section 3. The rationale for these selections is detailed below:

- The soil exceedances of non-residential particulate soil inhalation criteria (NPSIC) and non-residential direct contact (NDC) criteria are located beneath the former Factory 83/84 concrete slab. These exceedances can be effectively managed through engineering and institutional controls.
- The soil exceedance of non-residential infinite source volatile inhalation (NISVI) criteria for phenanthrene requires additional evaluation.
- Based on the current understanding of risk conditions, the potential volatilization to indoor air risk for future structures due to the biodegradation of LNAPL generating methane can be effectively mitigated through Site-wide institutional controls.
- The Outfall 003 and 005 storm sewers have been bulkheaded in this portion of the Site, so the mobility concerns have been addressed and the GSI pathway is not applicable.

- Nine quarterly LNAPL recovery events removed a total of only 7 gallons of LNAPL from AOI 83/84-2 wells from 2003 to 2005 and an unknown volume of LNAPL was recovered from a product recovery well.
- Although the LNAPL at AOI 83/84-2 is mobile within the stable perimeter, transmissivity testing indicates that recovery is not practical in the northern and western portions of the LNAPL area. In the southern portion of the AOI 83/84-2 LNAPL Area, transmissivity at RFI-83/84-53 was quantified at 4.1 ft^2/day. This value is greater than both the Interstate Technology and Regulatory Council (ITRC) and Michigan Department of Environmental Quality (MDEQ) draft threshold values for recovery, which indicates that LNAPL recovery is practicable at this location. However, LNAPL recovery at RFI-83/84-53 would not decrease the risk associated with the AOI 83/84-2 LNAPL Area.

3. AOI 83/84-2 Remedies

This section summarizes the completed and proposed remedies to address the impacts at AOI 83/84-2.

3.1 Completed Interim Measures

3.1.1 LNAPL Recovery

A Site-wide LNAPL monitoring program recovered a total of approximately 7 gallons of LNAPL in the AOI 83/84-2 area. In addition, in response to the observation of LNAPL beneath the floor of former Building 32, a recovery well was installed. The total amount of LNAPL recovered by this well is unknown. Partial removal of product has been completed in this area and is considered a component of the remedy.

3.1.2 Outfall 003 and 005 Bulkheads

As part of a recently completed IM, a bulkhead was installed at a lateral of the Outfall 003 storm sewer to eliminate the LNAPL infiltration from AOI 83/84-2. This bulkheading activity was completed in this portion of the Site in Spring 2013. Bulkheads have also been installed along the Outfall 005 storm sewer at manhole 5-19 and 5-13 to eliminate infiltration from the AOI 83/84-2 and Factory 83/84 Area. These bulkheads serve to eliminate LNAPL infiltration and the GSI pathway in the AOI 83/84-2 LNAPL Area. The locations of the bulkheads are presented on **Figure 5 of the main report**.

3.2 Additional Remedy Recommendations

The remedies recommended to address the compositional and mobility concerns associated with AOI 83/84-2 LNAPL Area are historic IMs, targeted excavation, and engineering and

institutional controls. These remedies will eliminate the infiltration pathway to the storm sewers and remove PCB impacts in the vicinity of monitoring well RFI-83/84-49 in the short term and will prevent future worker exposure to soil and LNAPL impacts in the long term.

3.2.1 Targeted Excavation

A targeted excavation is proposed to address the PCB impacts at RFI-83/84-49. As discussed in greater detail in **Attachment 3,** the PCB impacts have been delineated by temporary wells (TW-83/84-49-1, TW-83/84-49-2, TW-83/84-49-3, and TW-83/84-49-4); however, the extent of the excavation will be limited by the presence of subsurface obstructions (utilities and a vault) to the north and east**.** The proposed excavation area is shown on **Figure F3-2**.

3.2.2 003 and 005 Passive Recovery Trench Monitoring

After completion of re-routing activities the Outfall 003 and 005 bulkheads will have created two closed sections of pipe which will be used as passive recovery trenches. These trenches will be monitored for LNAPL accumulation and LNAPL will be removed, as necessary.

3.2.3 Maintaining Surface Cover

The remedy recommended to address soil impacts due to direct contact and particulate soil inhalation concerns is to maintain the existing Factory 83/84 slab over the impacted area. The area requiring surface cover is presented on **Figure F3-1**. The surface cover will be inspected and maintained to provide protection from future exposure.

3.2.4 Institutional Controls

The following AOI-specific institutional controls, in addition to the Site-wide institutional controls, will be necessary to limit potential for future exposure:

- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads, as shown on **Figure 5 in the main report**.
- Prohibit any excavation or other intrusive activity that could affect the integrity of the existing surface cover that is present (as shown on **Figure F3-1**) to prevent direct contact with contaminated material except with using appropriate health and safety measures during short-term construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the surface cover, that could

affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original barrier within a reasonable timeframe. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the NREPA.

- Notify future owners to the presence of PCBs, and
- Restrict the area containing PCB-impacted LNAPL to low occupancy (as shown on **Figure F3-1**).

Appendix F - Addendum No. 1

February 15, 2016

ARCADIS of Michigan, LLC
28550 Cabot Drive
Suite 500
Novi
Michigan 48377
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Fax 248 994 2241

MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER

From:
Micki M. Maki

Date:
February 15, 2016

ARCADIS Project No.:
B0064410.2016

Subject:
Remedy Recommendation Report
Appendix F – AOI 83/84-2 Cutting Oil Area - Addendum No.1
Summary of Additional Investigations
RACER Buick City Site, Flint, Michigan

Introduction

This Addendum No. 1 to Remedy Recommendation Report Appendix F presents a summary of the investigation data collected at the AOI 83/84-2 Cutting Oil Area from March 19, 2014 through December 31, 2015 at the Buick City Site (Site) located in Flint, Michigan.

Summary of Investigation Activities

Additional investigation activities were completed at AOI 83/84-2 to refine the extents of polychlorinated biphenyls (PCB) impacts and delineate LNAPL in the vicinity of monitoring well RFI-83/84-49 (**Figure F-A1-1**). Two temporary wells (TW-83/84-49-8 and TW-83/84-49-9) were installed to delineate LNAPL at RFI-83/84-49. The wells were completed to a depth of 15 feet below ground surface (ft bgs). Soil samples were collected at each temporary well from 7 to 9, 9 to 11, and 11 to 13 ft bgs and submitted to the laboratory for polychlorinated biphenyls (PCB) analysis.

In addition, LNAPL samples were collected from TW-83/84-49-3, TW-83/84-49-8, and TW-83/84-49-9 and submitted to the laboratory for PCB analysis.

Summary of Data Evaluation

A total of six soil samples were submitted for PCB analysis. PCBs were detected in two samples collected from TW-83/84-49-8 at concentrations of 0.05 mg/kg (9 to 11 ft bgs) and 0.6 mg/kg (11 to 13 ft bgs) and two samples collected from TW-83/84-49-9 at concentrations of 0.4 mg/kg (9 to 11 ft bgs) and 0.44 mg/kg (11 to 13 mg/kg) (**Table F-A1-1**).

In addition, temporary wells TW-83/84-49-8 and TW-83/84-49-9 were gauged four times in 2015. LNAPL was detected at a maximum thickness of 0.41 feet at TW-83/84-49-8 and 6.1 feet at TW-83/84-49-9. Samples of LNAPL were collected from TW-83/84-49-8 and TW-83/84-49-9 along with a sample from previously existing well TW-83/84-49-3 and submitted for PCB analysis. PCBS were detected in the LNAPL samples at concentrations of 3.3 mg/kg at TW-83/84-49-3, 33 mg/kg at TW-83/84-49-8, and 26 mg/kg at TW-83/84-49-9 (**Table F-A1-2**).

Table F-A1-1 **Summary of Additional Soil Investigation**
Remedy Recommendation Report Appendix F – AOI 83/84-2 Cutting Oil Area - Addendum No. 1
RACER Buick City Site, Flint, Michigan

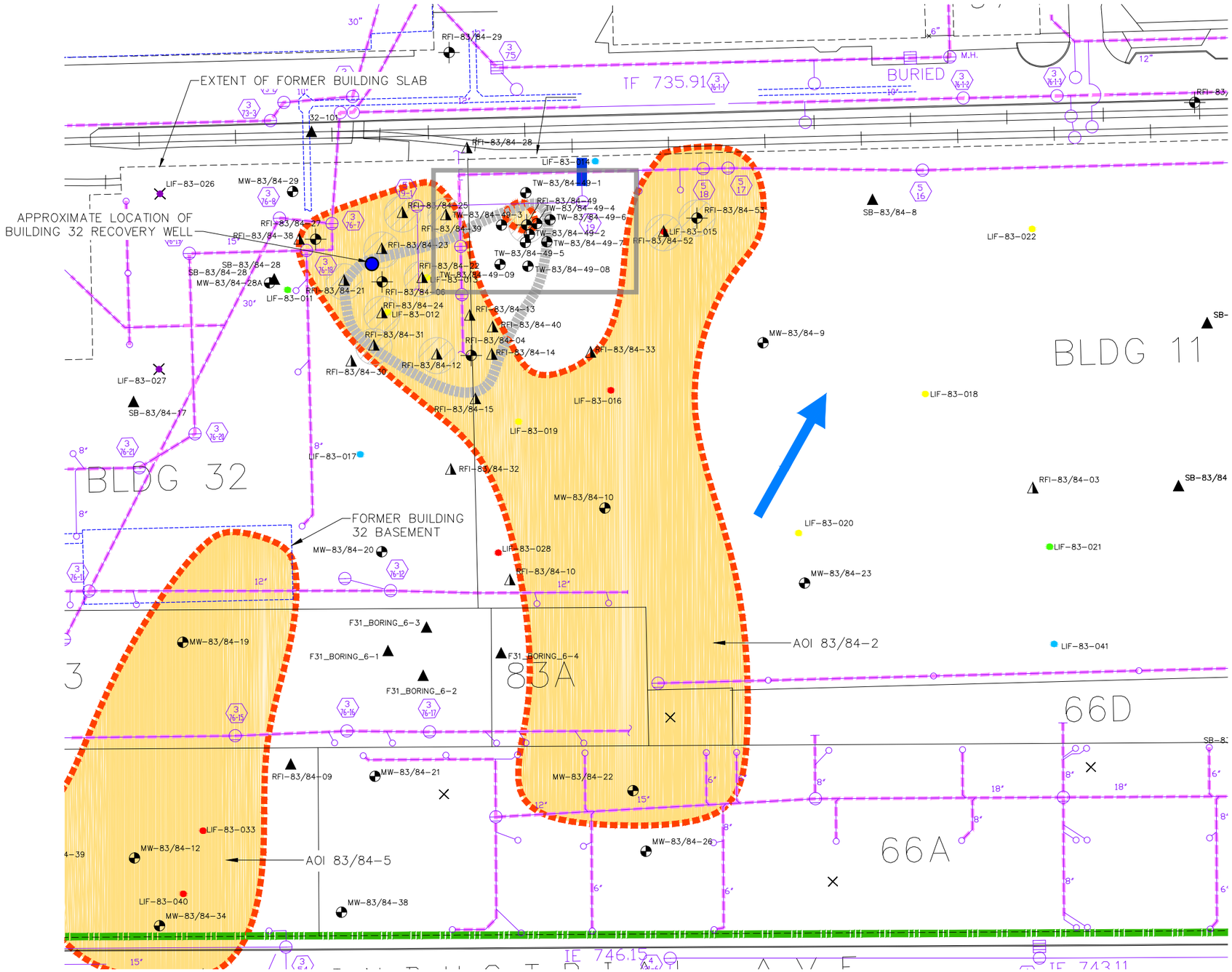
Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GSIP	NDC	NPSIC	NSVIA	NVSICI	TW-83/84-49-8 7 - 9 11/25/14	TW-83/84-49-8 9 - 11 11/25/14	TW-83/84-49-8 11 - 13 11/25/14	TW-83/84-49-9 7 - 9 11/25/14	TW-83/84-49-9 9 - 11 11/25/14	TW-83/84-49-9 11 - 13 11/25/14
PCB													
Aroclor-1016 (PCB-1016)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.05 b	0.6	0.33 U	0.33 U [0.4]	0.44
Aroclor-1248 (PCB-1248)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U
Miscellaneous													
Total solids	mg/kg	- -	- -	- -	- -	- -	- -	840,000	820,000	810,000	820,000	860,000 [880,000]	820,000

Notes:
mg/kg - milligram per kilogram
ft - feet
CSAT - Soil Saturation Concentration Screening Level
GSIP - Groundwater Surface Water Interface Protection Criteria
NDC - Nonresidential Direct Contact Criteria
NPSIC - Nonresidential Particulate Soil Inhalation Criteria
NSVIA - Nonresidential Soil Volatilization to Indoor Air Inhalation Criteria
NVSICI - Nonresidential Infinite Source Volatile Soil Inhalation Criteria
U – not detected above the reporting limit□
Y - Elevated reporting limit due to high target concentration

Table F-A1-2 **Summary of Additional LNAPL Investigation**
Remedy Recommendation Report Appendix F – AOI 83/84-2 LNAPL Area - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: Sample Depth(): Date Collected:	Units	TW-83/84-49-3 12/29/15	TW-83/84-49-8 12/29/15	TW-83/84-49-9 12/29/15
PCB				
Aroclor-1016 (PCB-1016)	mg/kg	<1	<3 Y	<3 Y
Aroclor-1221 (PCB-1221)	mg/kg	<1	<3 Y	<3 Y
Aroclor-1232 (PCB-1232)	mg/kg	<1	<3 Y	<3 Y
Aroclor-1242 (PCB-1242)	mg/kg	3.3	26 Y	33 Y
Aroclor-1248 (PCB-1248)	mg/kg	<1	<3 Y	<3 Y
Aroclor-1254 (PCB-1254)	mg/kg	<1	<3 Y	<3 Y
Aroclor-1260 (PCB-1260)	mg/kg	<1	<3 Y	<3 Y

Notes:
mg/kg - milligram per kilogram
Y - Elevated reporting limit due to high target concentration



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- STORM SEWER LINE
- GENERAL GROUNDWATER FLOW DIRECTION
- ABANDONED STORM SEWER LATERALS

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200

REFUSAL BORINGS

- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 02/15/2016.

0 40' 80'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 83/84-2 INVESTIGATION LOCATIONS AND LNAPL E□TENTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
F-A1-1

CITY: SYRACUSE DV/GROUP: ENV DB: A.SANCHEZ LD: ALS/GMS PIC: C.S.PETERS PM: C.KIKER TM: C.KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\0064410\2016\0020764410_AOI83.84-2.dwg LAYOUT: F-A1-1 SAVED: 2/11/2016 12:29 PM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME: ---
PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 2/11/2016 12:29 PM ACADVER: 19.1S (LMS TECH)

ARCADIS

Appendix G

AOI 36-1/36-2 LNAPL Area
Remedy Recommendation Memo

ARCADIS of Michigan, LLC
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Suite 500
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MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER Trust
Dave Favero, RACER Trust
Chris Peters, ARCADIS
Steve Gaito, ARCADIS

From:
Micki M. Maki
Victoria Stacey

Date:
August 29, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
Priorities #8, 14, & 15 - AOI 36-1/36-2 LNAPL Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

As part of the light non-aqueous phase liquid (LNAPL) remedy evaluation process the Site's 17 LNAPL areas were prioritized based on risk. The AOI 36-1/36-2 LNAPL is ranked as Priorities #8, 14 & 15 with a combined total potential risk score of 8 (**Table 5 of the main report**). Two conceptual site model cross-sections are attached (**Figures G-1 and G-2**) which provide an overview of the AOI 36-1/36-2 LNAPL Area impacts and interim measures (IMs).

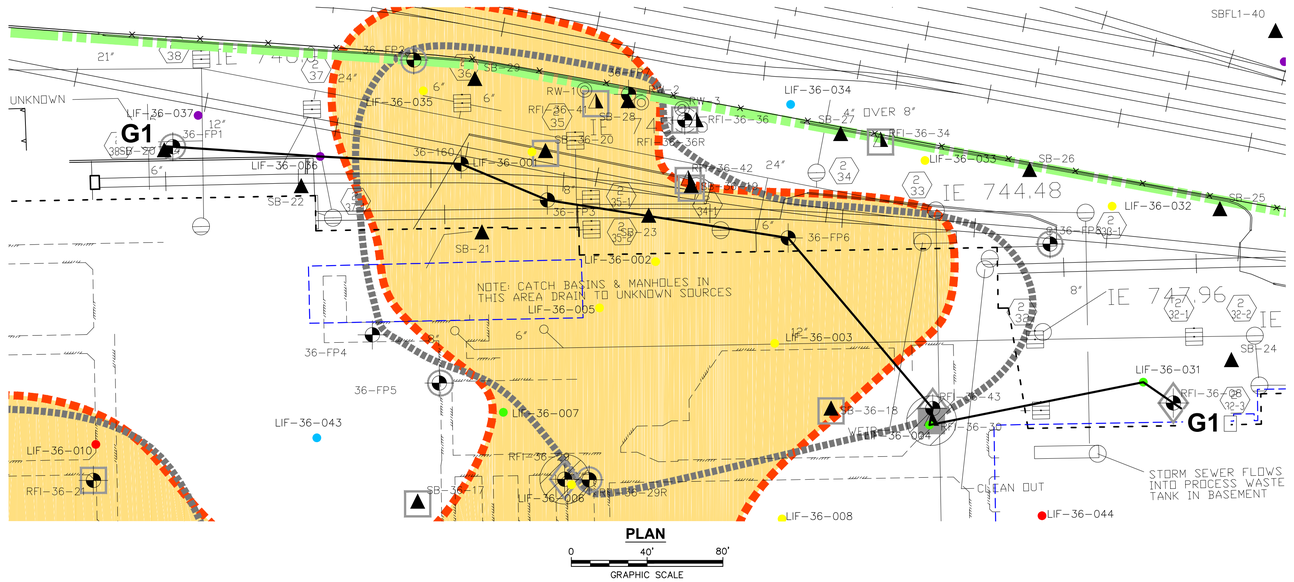
Historical IMs completed at the AOI 36-1/36-2 LNAPL area include the Factory 36 Treatment System and an LNAPL bailing program. The partial and effective removal of product was completed in this area is considered a component of the remedy.

The compositional and saturation concerns identified for the AOI 36-1/36-2LNAPL Area were evaluated in the LNAPL decision tree (**Attachment 2**) and are summarized below:

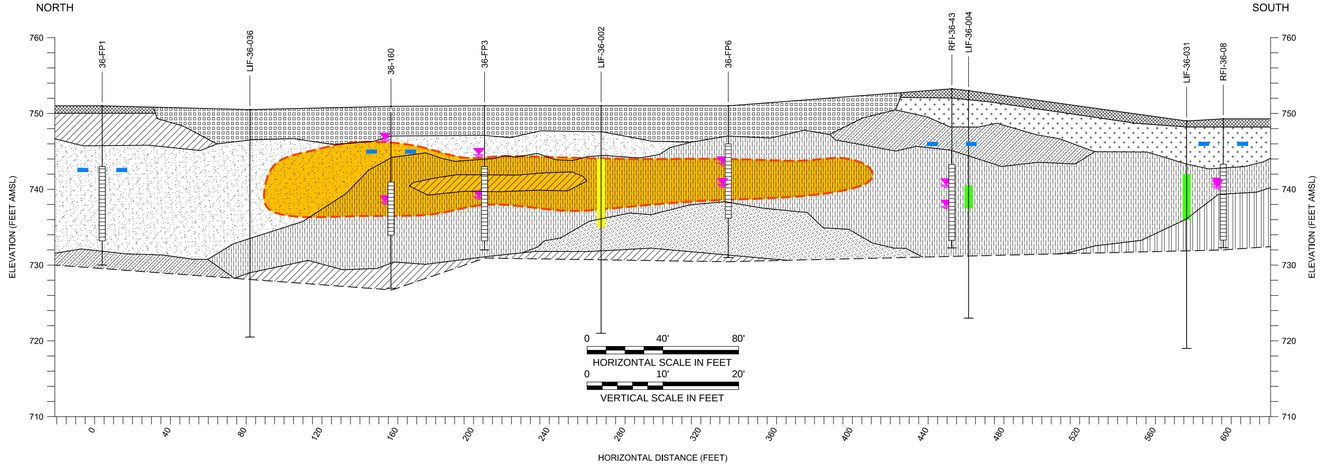
- There are unacceptable volatilization to indoor air for LNAPL and soil concerns for AOI 36-1, direct contact concerns for soil and LNAPL at AOI 36-1, volatile soil inhalation (ambient air) concerns, and mobility concerns for the AOI 36-1/36-2 LNAPL Area.

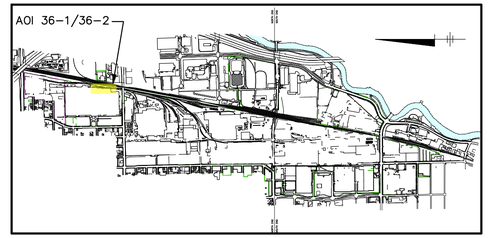
- Multi-phase extraction (MPE) in the central portion of the AOI 36-1/36-2 LNAPL Area is a feasible option to mitigate unacceptable risk through compositional change, due to the relatively high volatility and low viscosity of the LNAPL.
- Based on the current understanding of risk conditions, the potential volatilization to indoor air risk for future structures and direct contact concerns can be effectively mitigated through engineering and institutional controls.
- LNAPL from the AOI 36-1/36-2 area was infiltrating the Outfall 002 Storm Sewer, which has since been bulkheaded to eliminate this pathway.
- LNAPL transmissivity in the northwestern portion of the AOI 36-1/36-2 LNAPL Area indicates recovery is not practical. In addition LNAPL recovery will not result in a beneficial reduction in overall LNAPL mass or exposure risk in this area.

The remedies recommended to address the compositional and saturation concerns associated with the AOI 36-1/36-2 LNAPL Area are the 002 Passive Recovery Trench Monitoring, Multi-phase Extraction, and Engineering and Institutional Controls.



PLAN





SITE MAP

0 2000' 4000'
SCALE IN FEET

AOI 36-1/36-2 AREA

KEY LNAPL COMPOSITION AND SATURATION CONCERNS

1) LNAPL AND SOIL VOLATILIZATION TO INDOOR AIR CONCERNS
2) VOLATILE SOIL INHALATION (AMBIENT AIR) CONCERNS
3) DIRECT CONTACT CONCERNS FOR LNAPL AND SOIL AT AOI 36-1
4) POTENTIAL VOLATILIZATION TO INDOOR AIR CONCERNS FOR FUTURE STRUCTURES
5) LNAPL INFILTRATION TO THE OUTFALL 002 STORM SEWER

COMPLETED INTERIM MEASURES AND RECOMMENDED REMEDIES

R-1) FACTORY 36 LNAPL RECOVERY SYSTEM ALONG CSX PROPERTY BOUNDARY (IM COMPLETED)

R-2) OUTFALL 001 AND 002 INFILTRATION PATHWAY ELIMINATION (IM COMPLETED)

R-3) 002 RECOVERY TRENCH MONITORING (ONGOING)

R-4) MULTI-PHASE EXTRACTION SYSTEM

R-5) SURFACE COVER

R-6) INSTITUTIONAL CONTROLS

NOTES:

1. BASE MAP INFORMATION FROM SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.
2. BASED ON INFORMATION AVAILABLE AS OF 03/19/14.
3. LNAPL THICKNESSES IN WELL RFI-36-08 HAVE HISTORICALLY BEEN LESS THAN 0.1 FT. THEREFORE, THIS LOCATION IS NOT INCLUDED AS PART OF CURRENT OR HISTORICAL LNAPL AREA.

RACER TRUST
BUICK CITY, FLINT, MICHIGAN

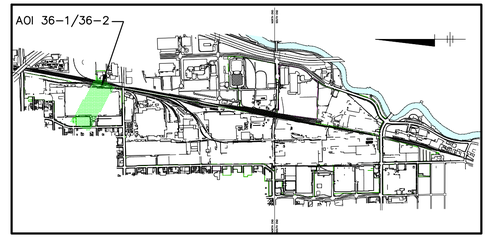
AOI 36-1/36-2 CONCEPTUAL SITE MODEL CROSS SECTION G1-G1'

ARCADIS

FIGURE
G-1

CITY:SYRACUSE DIV/GROUP:ENV DB:A.SANCHEZ LD:AS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
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IMAGES: PROJECTNAME: ----





SITE MAP

0 2000' 4000'
SCALE IN FEET

AOI 36-1/36-2 AREA

KEY LNAPL COMPOSITION AND SATURATION CONCERNS

1) LNAPL AND SOIL VOLATILIZATION TO INDOOR AIR CONCERNS
2) VOLATILE SOIL INHALATION (AMBIENT AIR) CONCERNS
3) DIRECT CONTACT CONCERNS FOR LNAPL AND AT AOI 36-1
4) POTENTIAL VOLATILIZATION TO INDOOR AIR CONCERNS FOR FUTURE STRUCTURES
5) LNAPL INFILTRATION TO THE OUTFALL 002 STORM SEWER

COMPLETED INTERIM MEASURES AND RECOMMENDED REMEDIES

R-1) FACTORY 36 LNAPL RECOVERY SYSTEM ALONG CSX PROPERTY BOUNDARY (IM COMPLETED)

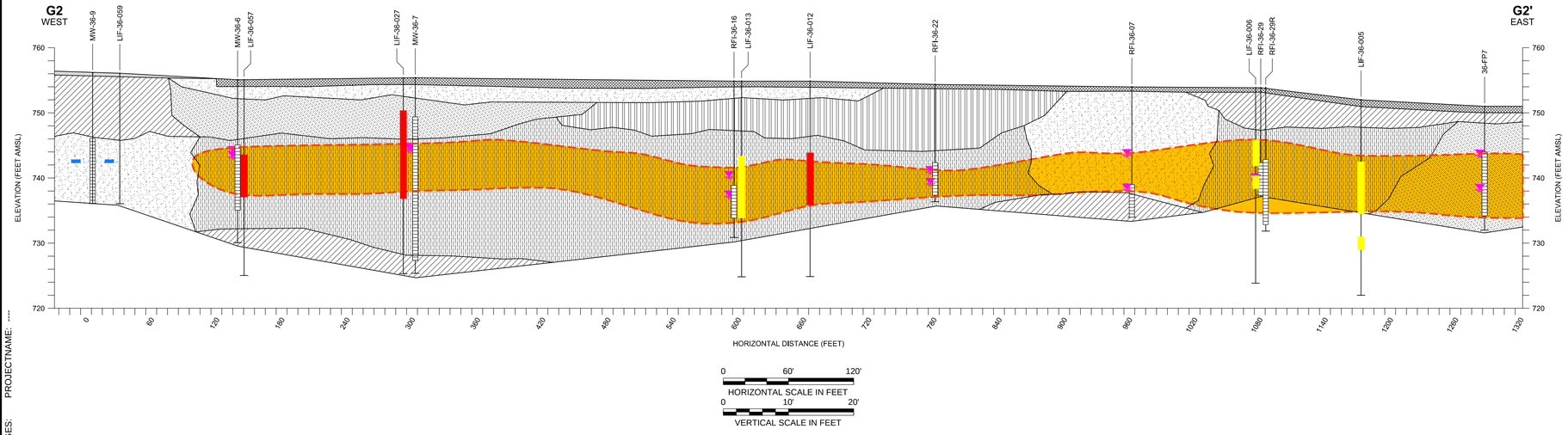
R-2) OUTFALL 001 AND 002 INFILTRATION PATHWAY ELIMINATION (IM COMPLETED)

R-3) 002 RECOVERY TRENCH MONITORING (ONGOING)

R-4) MULTI-PHASE EXTRACTION SYSTEM

R-5) SURFACE COVER

R-6) INSTITUTIONAL CONTROLS



NOTES:

1. BASE MAP INFORMATION FROM SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.
2. BASED ON INFORMATION AVAILABLE AS OF 03/19/14.

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BUICK CITY, FLINT, MICHIGAN

AOI 36-1/36-2 CONCEPTUAL SITE MODEL CROSS SECTION G2-G2

ARCADIS

FIGURE
G-2

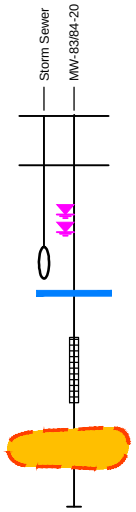
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IMAGES: PROJECTNAME: ----

LEGEND

- PROPERTY BOUNDARY
- HISTORICAL LNAPL EXTENT
- CURRENT LNAPL EXTENT
- STORM SEWER
- ABANDONED STORM SEWER LATERAL
- APPROXIMATE LOCATION OF RECOVERY TRENCH
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- A1 — A1 LINE OF SECTION
- RFI MONITORING WELL LOCATION
- MONITORING WELL LOCATION
- RECOVERY WELL (NAPL) LOCATION
- PIEZOMETER LOCATION
- SOIL BORING LOCATION
- DECOMMISSIONED WELL LOCATION
- EVIDENCE OF PRODUCT OBSERVED IN SOIL

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

- <5
- 5–10
- 10–100
- 100–200
- >200
- HAND AUGER REFUSAL (TOP 5')
- GROUNDWATER SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- GROUNDWATER SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- SOIL SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES DO NOT EXCEED APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES EXCEED ONE OR MORE APPLICABLE CRITERIA



- WELL/BORING ID
- EXISTING GRADE
- LITHOLOGICAL CONTACT (DASHED WHERE INFERRED)
- NAPL LEVEL (HISTORIC HIGH AND LOW LEVELS)
- WATER TABLE
- WELL SCREEN
- APPROXIMATE EXTENT OF LNAPL
- WELL/BORING BOTTOM
- ASPHALT
- CONCRETE
- CLAY
- FILL
- GRAVEL
- INTERBEDDED SAND AND CLAY
- INTERBEDDED SANDS AND SILTS
- INTERBEDDED SILT AND CLAY
- SAND
- SILT
- SILTY SAND

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

CROSS SECTION LEGEND

ARCADIS

FIGURE
G-3

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
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XREFS: IMAGES: PROJECTNAME: ---
Xr64410X3Bsp
Xr64410XDrainage
Xr64410X01
Xr64410XLIFsp2
Xr64410X01
Xr64410XAOI
Xr64410XLNAPL

Attachment 1

LNAPL Conceptual Site Model

Priority #8, 14, & 15 - AOI 36-1/36-2 LNAPL Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 1 - Conceptual Site Model

This attachment presents a conceptual site model for the Area of Interest (AOI) 36-1/36-2 light non-aqueous phase liquid (LNAPL) Area (AOI 36-1/36-2), which is located at the Northend of the Buick City Site (Site) located in Flint, Michigan (**Figure G1-1**).

1. Background

Historically, three LNAPL areas (AOI 36-1 Mineral Seal/Hydraulic Oil [MS/HO] Area, AOI 36-1 Gasoline Area, and AOI 36-2 Exterior MS/HO Area) have been identified at the former Factory 36 Area. However, based on the results of recently completed Site investigation activities these three LNAPL areas appear to be a single co-mingled LNAPL area. A review of the LIF responses and analytical data in all three areas indicated that the LNAPL at AOI 36-1 Gasoline Area and AOI 36-2 MS/HO Area, located in the central and southeastern portion of the AOI 36-1/36-2 LNAPL Area consists of a mixture of weathered gasoline, hydraulic oil, and diesel and the AOI 36-1 MS/HO LNAPL, located in the northwestern portion, consists primarily of a hydraulic oil/ degraded heavy fuel oil. Due to the commingled nature of the areas, the three areas have been combined into one LNAPL area identified as the AOI 36-1/36-2 LNAPL Area.

The AOI 36-1/36-2 LNAPL Area is associated with multiple historic releases in the former Factory 36 area. Releases in the northern and central portion of former Factory 36 were associated with engine manufacturing and metal machining processes. The release in the southeastern portion of former Factory 36 was associated with separating oils from metal machining chips. The gasoline release in the south central portion of Factory 36 is likely associated with engine testing processes.

Investigation data previously presented in Site reports are not re-presented in this memo. However, relevant AOI 36-1/36-2 LNAPL Area investigation data that has not previously been presented in a Site report are attached or are presented in **Appendix X**.

2. Former Interim Measures (IMs)

2.1 LNAPL Monitoring and Bailing Program

During the Site-wide LNAPL monitoring program conducted from 2001 through 2005, a total of approximately 150 gallons of LNAPL was recovered by bailing from the AOI 36-1/36-2 LNAPL Area.

2.2 Factory 36 Treatment System

From 2005 to 2010 a groundwater and LNAPL recovery system was operated as an IM along the east side of former Factory 36. The purpose of this IM was to control potential offsite migration of LNAPL and Site-related constituents and to collect free-phase LNAPL. This system consisted of three 12-inch diameter wells and pumps for both product recovery and groundwater drawdown. The system was discontinued in 2010 due to the minimal amount of LNAPL being collected (approximately 314 gallons of LNAPL were collected in the five years of operation).

3. AOI 36-1/36-2 LNAPL Area Site Setting and Data Summary

This section provides a summary of the geology, hydrogeology, analytical data, and LNAPL characteristics and extent of impacts for AOI 36-1/36-2 LNAPL Area. **Figure G1-2** presents the locations of the existing and abandoned monitoring wells and soil borings in the AOI 36-1/36-2 LNAPL Area.

3.1 AOI 36-1 LNAPL Area Geology and Hydrogeology

- *Geology*: Soil boring and monitoring well logs in the AOI 36-1/36-2 LNAPL Area indicate that the soils are primarily interbedded fine sands, silts and clays down to approximately 27 feet below ground surface (bgs). The logs also indicated evidence of impact as shallow as 4 feet bgs and as deep as 19 feet bgs in the central and southeastern portion of the AOI 36-1/36-2 LNAPL Area and as shallow as 5 feet bgs and as deep as 24 feet bgs in the northwestern portion of the AOI 36-1/36-2 LNAPL Area.

- *Groundwater/LNAPL Levels:* LNAPL at the AOI 36-1/36-2 LNAPL Area has accumulated to measurable thicknesses in 17 monitoring wells (36-160, 36-FP-2, 36-FP-3, 36-FP-6, 36-FP-7, MW-36-4, MW-36-6, MW-36-7, RFI-36-06, RFI-36-07, RFI-36-15, RFI-36-16, RFI-36-21, RFI-36-22, RFI-36-23, RFI-36-29R, and RFI-36-49). At RFI-36-07 LNAPL was not measureable in 2013; however, 0.05 of product was measured in 2012 and 0.47 feet was measured in 2011 (**Figure G1-2**).

  The depth to groundwater in the central portion of the LNAPL ara ranges from 8 to 11 feet, The depth to groundwater in the southeastern portion of the LNAPL Area ranges from 9 to 15 feet bgs.

The depth to groundwater in the northwestern portion of the LNAPL Area ranges from 11 to 21 feet bgs. The greatest thickness of LNAPL at AOI 36-1/36-2 was 7.04 feet measured in 2005 at 36-FP6.

Based on historic fluid level gauging data, groundwater flow in this portion of the Site is generally to the east and northeast. A summary of recent groundwater level data collected is presented in **Appendix X**.

3.2 Groundwater and Soil Analytical Data

Analytical data were compared to applicable Michigan Part 201 non-residential criteria. The storm sewers in the AOI 36-1/36-2 LNAPL Area have been bulkheaded - eliminating the groundwater to surface water pathway; therefore, the groundwater surface water pathway is not applicable at this AOI.

3.2.1 Groundwater Analytical Data

Groundwater data in the AOI 36-1/36-2 LNAPL Area show that no constituents were detected above applicable regulatory cleanup criteria.

3.2.2 Soil Volatile Organic Compound (VOC), Semi-Volatile Organic Compound (SVOC), and Metals Analytical Data

Select soil samples collected from five borings in the AOI 36-1/36-2 LNAPL Area exceeded applicable non-residential criteria. Benzene was detected above the Ambient Air Non-residential Infinite Source Volatile Soil Inhalation (NISVI) criteria (47-240/45 mg/kg) and Non-residential Soil Volatilization to Indoor Air (NSVIA) criteria (9.3-240/8.4 mg/kg). Ethylbenzene was detected above NSVIA (680/460 mg/kg) and Csat criteria (158-680/140 mg/kg). Toluene was detected above NISVI (4,100/3,300 mg/kg), NSVIA (780-4,100/610 mg/kg), and Csat criteria (510-4,100/250 mg/kg. Xylenes were detected above Csat criteria (176-680/150 mg/kg); 1,2,4-trimethylbenzene Csat criteria (230-290/110 mg/kg); and 1,3,5-trimethylbenzene Csat criteria (100/94 mg/kg). In addition, arsenic was detected in one soil sample above Non-residential Direct Contact (NDC) criteria (39/37 mg/kg).

3.2.3 Groundwater Surface Water Interface (GSI) Evaluation

As discussed in further detail in **Appendix BB**, GSI exceedances in the Site storm sewers are being evaluated by the ongoing NPDES Plus Monitoring Program (NPMP). The AOI 36-1/36-2 area was primarily serviced by the Outfall 002 storm sewer; however, there are also laterals for the Outfall 001 and 003 storm sewers located on the north and west side of the former Factory 36 slab, respectively. In 2014 the Outfall 001 laterals were bulkheaded north of AOI 36-1 (**Figure 5 of the main report**). In 2013 the Outfall 002 storm sewer was bulkheaded at the property boundary to eliminate LNAPL infiltration. The

Also, the Outfall 003 lateral at the AOI 36-1/36-2 area is 6 to 9 feet above the water table; therefore, the GSI pathway is not applicable.

3.2.4 Soil PCB Analytical Data

Polychlorinated biphenyls (PCBs) were detected in three of 46 soil samples collected from the AOI 36-1/36-2 area. Detect concentrations of PCBs were less than 1 part per million (ppm).

3.2.5 Vapor Intrusion Evaluation

The depth to groundwater in the AOI 36-1/36-2 area is generally deeper than 10 feet; however, south of the LNAPL area in the vicinity of monitoring well RFI-36-08 has been gauged as shallow as 2.7 feet bgs. Therefore, In addition to the MDEQ Part 201 criteria groundwater data in the vicinity of RFI-36-08 were also compared to the applicable Non-Residential Screening Values for the Vapor Intrusion Pathway presented in the *Michigan Department of Environmental Quality (MDEQ) Guidance Document for the Vapor Intrusion Pathway* (further discussed in Section 3.4 of the Report). Groundwater data from RFI-36-08 exceed applicable screening levels.

As there are no structures at the Site, the MDEQ Part 201 criteria are appropriate for comparison of soil data. As discussed in Section 3.2.2, benzene and toluene were detected at concentrations exceeding NSVIA and NISVI criteria and ethylbenzene was detected at concentrations exceeding NSVIA criteria in soil samples collected from RF-36-07, RFI-36-30, SB-36-12, and/or SB-36-13.

3.3 LNAPL Characteristics

- *LNAPL Analytical Data:* Eleven LNAPL samples have been collected from the AOI 36-1/36-2 Area and submitted for analysis. Laboratory results indicate the following:

    - In the northwestern portion of the AOI 36-1/36-2 LNAPL Area (formerly known as the AOI 36-1 MS/HO area) the LNAPL has a viscosity of 18.5 centipoise (cp) and a specific gravity of 0.88, and an ignitability of greater than 200 degrees Fahrenheit. In addition, trichloroethene was found at 4.19 parts per million (ppm), which exceeds RCRA toxicity characteristic criteria; however, TCLP analysis has not been completed.
    - In the central portion of the LNAPL Area (formerly known as the AOI 36-1 Gasoline area) the LNAPL has a viscosity of 2.2 cp, an interfacial tension of 0.54 dynes/centimeter, a specific gravity of 0.83, and an ignitability of 50 degrees Fahrenheit. In addition benzene is present at concentrations up to 2,900 ppm, which exceeds RCRA toxicity characteristic criteria; however, TCLP analysis has not been

conducted.

- In the southeastern portion of the LNAPL Area (formerly known as the AOI 36-2 MS/HO area) the LNAPL has a viscosity of 24.3 cp, an interfacial tension of 24 dynes/centimeter, a specific gravity of 0.90, and an ignitability of greater than 200 degrees Fahrenheit. In addition benzene has been detected at concentrations up to 1,300 ppm, which exceeds RCRA toxicity characteristic criteria; however, TCLP analysis has not been conducted.

For reference, the viscosity (at 100 degrees Fahrenheit) of olive oil is 43.2 cp (Ingersoll-Rand, 1981).

- *Human Health Risk Assessment (HHRA):* The HHRA, which was presented in the RCRA Facility Investigation (RFI) Phase II Report (BBL, 2006), identified a volatilization to indoor air concern at AOI 36-1 (location shown on **Figure G1-2**). The potential exposure of routine workers to soil and LNAPL via vapor intrusion was identified as a risk. The HHRA also identified LNAPL at AOI 36-1 as a direct contact concern for construction workers and maintenance workers. The majority of the AOI 36-1/36-2 LNAPL area is located beneath the former Factory 36 concrete slab. The shallowest LNAPL impacts are located approximately eight feet below ground surface, and represent a potential concern for future construction or utility workers.

  The HHRA did not identify and risks at AOI 36-2.

- *LIF Data:* Fifty-six laser-induced fluorescence (LIF) borings were completed in the AOI 36-1/36-2 LNAPL Area. The LIF response at the central and southeastern portion of the AOI 36-1/36-2 LNAPL Area is consistent with the known LNAPL types, weathered gasoline mixed with hydraulic oil and diesel and the LIF response in the northwestern portion of the AOI 36-1/36-2 LNAPL Area is consistent with the known LNAPL type, degraded heavy fuel oil/hydraulic oil. **Figure G1-2** presents the results of the LIF investigation and the extent of impacts associated with the AOI 36-1/36-2 LNAPL Area. LIF data indicate that in the northwestern portion of the LNAPL Area vertical impacts are primarily 10 to 22 feet bgs, with some impacts as shallow as 5 feet bgs. In the southeastern portion of the LNAPL Area vertical impacts are primarily 5 to 18 feet bgs; however, impacts were detected at one location at a depth of 35 feet bgs.

- *Transmissivity:* Transmissivity testing was completed at one monitoring well (36-FP7) in the southeastern portion of the AOI 36-1/36-2 LNAPL Area and one monitoring well (MW-36-06) in the northwestern portion of the AOI 36-1/36-2 LNAPL Area. Based on LNAPL baildown test results, LNAPL transmissivity quantified at monitoring well 36-FP7 was 0.2 square feet per day (ft^2/day) and at monitoring well MW-36-06, which had 5.18 feet of measurable LNAPL, was

0.03 ft^2/day, which are less than the Interstate Technology and regulatory Council (ITRC) suggested minimum threshold and the Michigan Department of Environmental Quality (MDEQ) threshold value that indicates LNAPL recovery is not practicable at these wells. The transmissivity data are presented in **Table 2 of the main report.**

- *Natural Source Zone Depletion (NSZD):* NSZD was completed in the eastern portion of the AOI 36-1/36-2 LNAPL Area, outside of the former Factory 36 footprint, to establish ongoing natural attenuation rates of LNAPL as a baseline for comparison to active LNAPL recovery technologies. One carbon trap was installed in an area that is not covered by asphalt or concrete. The results show that LNAPL near monitoring well RFI-36-42 is being depleted at a rate of 3,217 gallons per acre per year. The NSZD data are presented in **Table 3B of the main report.**

3.4 Extent of LNAPL

During the RCES preparation, the AOI 36-1/36-2 LNAPL area was calculated based on historical data. The footprint of the LNAPL area containing approximately 0.5 ft or greater of LNAPL was estimated to be a total of approximately 303,500 square feet. Also, based on the results of recent LNAPL investigations the extent of AOI 36-1/36-2 LNAPL Area has been redefined (as discussed in Section 2.1.3 of the main report and based on in-well LNAPL thicknesses of 0.1 ft or greater); therefore, the current footprint of the LNAPL area is estimated to be approximately 429,300 square feet.

Based on the LIF and soil boring logs for boring RFI-36-07 in the central portion of the AOI 36-1/36-2 LNAPL Area, impacts were detected from 4 to 19 feet bgs; however, only the soil samples collected from the 8 to 14 feet bgs interval detected concentrations that exceeded the applicable cleanup criteria. In the northwestern portion of the AOI 36-1/36-2 LNAPL Area, impacts were detected from 5 to 24 feet bgs (with the impacts detected deeper toward the northwest); however, only the soil sample collected from the 14 to 16 feet bgs interval detected a concentration that exceeded the applicable cleanup criteria.

ARCADIS

Boring Logs

Date Start: 5/28/2013
Date Finish: 5/28/2013
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Sonic
Sampling Method: 6" Core barrel
Rig Type: Mini Sonic
Water Level Start (ft. bgs.): 14.68' bgs
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

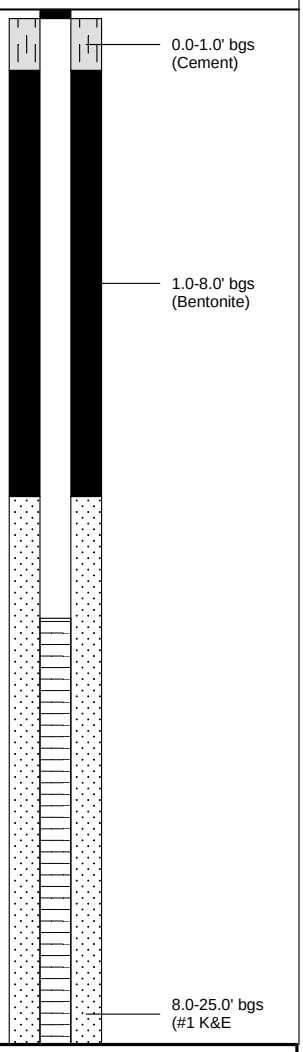
Borehole Depth: 25.0
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: MW-36-02
Client: RACER Trust
Location: RACER Buick City
Flint, MI

Weather Conditions: 80F, Sunny

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0							(0.0-1.0') CONCRETE.	
	1	0.0-5.0	5.0	0.0 0.0 0.0 0.0			(1.0-3.0') SAND, very fine to coarse, subrounded; some granules to small pebbles, subrounded; little silt; poorly sorted; dry; black (10YR 2/1). Note: Slight odor. (3.0-5.0') SAND, fine to coarse, subrounded; trace granules, subrounded; poorly sorted; dry; brown (10YR 5/4).	
5 / -5	2	5.0-10.0	5.0	0.0 0.0 0.0 0.0 0.0			(5.0-9.0') SAND, fine to medium, subrounded; and CLAY, medium plasticity, little granules to small pebbles, subrounded to subangular; poorly sorted; dry; brown (10YR 5/2). (9.0-25.0') SAND, fine to coarse, subrounded; little granules, subangular; trace silt; poorly sorted; wet; brown (10YR 5/2). Note: Slight odor.	
10 / -10	3	10.0-15.0	5.0	0.0 0.0 0.0 0.0 0.0				
15 / -15				0.0 0.0				



Remarks: Hand Auger to 5.0' bgs.

ARCADIS
Infrastructure · Water · Environment · Buildings

Date Start: 5/28/2013
Date Finish: 5/28/2013
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Sonic
Sampling Method: 6" Core barrel
Rig Type: Mini Sonic
Water Level Start (ft. bgs.): 14.68' bgs
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 25.0
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **MW-36-02**

Client: RACER Trust

Location: RACER Buick City
Flint, MI

Weather Conditions: 80F, Sunny

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
	4	15.0-20.0	5.0	0.0 0.0 0.0					filterpack) 10.0-25.0' bgs (10-slot PVC screen)
20 -20									
	5	20.0-25.0	5.0	0.0 0.0 0.0 0.0 0.0					
25 -25							End of boring at 25.0' bgs.		
30 -30									
35 -35									

Remarks: Hand Auger to 5.0' bgs.

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Date Start: 5/24/2013
Date Finish: 5/24/2013
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Sonic
Sampling Method: 6" Core barrel
Rig Type: Mini Sonic
Water Level Start (ft. bgs.): 11.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 25.0
Surface Elevation: NA

Descriptions By: T. Stevens

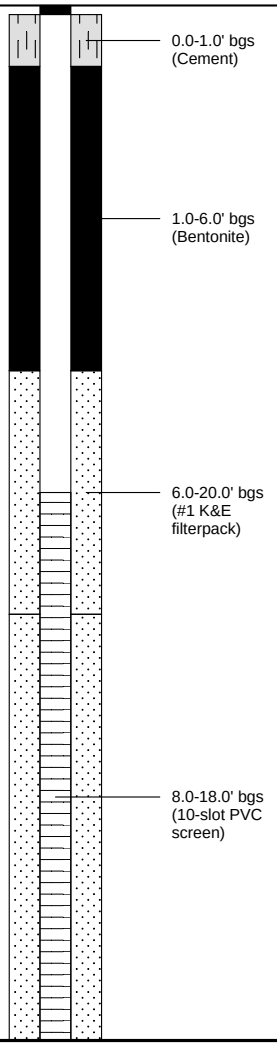
Well/Boring ID: **MW-36-04**

Client: RACER Trust

Location: RACER Buick City
Flint, MI

Weather Conditions: 80F, Sunny

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0							(0.0-1.0') CONCRETE.	
	1	0.0-5.0	5.0	0.0 0.0 0.0 0.0			(1.0-4.0') SAND, fine to medium, subrounded; little granules to small pebbles, subrounded; trace silt; poorly sorted; wet; black (10YR 2/1). Note: Wet likely due to surface run-off to open hole during heavy rain.	
5 / -5							(4.0-9.0') SAND, fine to medium, subrounded to subangular; some granules, subrounded to subangular; little small pebbles, subrounded; and CLAY, little silt, high plasticity, slow dilatancy; poorly sorted; moist; soft; yellowish brown (10YR 5/4).	
	2	5.0-10.0	5.0	0.0 0.0 0.0 0.0 0.0			(9.0-15.0') SAND, fine to coarse, subrounded to subangular; little silt; poorly sorted; wet; brown (10YR 5/3).	
10 / -10							NOTE: Wet at 11.0' bgs.	▼
	3	10.0-15.0	5.0	0.0 0.0 0.0 0.0 0.0				
15 / -15				0.0 0.0			(15.0-18.0') SILT, non-plastic, rapid dilatancy; and SAND, very fine, subrounded; well sorted; wet; grayish brown (10YR 5/2).	



Remarks: Hand Auger to 5.0' bgs.

ARCADIS
Infrastructure · Water · Environment · Buildings

Date Start: 5/24/2013
Date Finish: 5/24/2013
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Sonic
Sampling Method: 6" Core barrel
Rig Type: Mini Sonic
Water Level Start (ft. bgs.): 11.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 25.0
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **MW-36-04**

Client: RACER Trust

Location: RACER Buick City
Flint, MI

Weather Conditions: 80F, Sunny

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
	4	15.0-20.0	5.0	0.0					
				0.0			(18.0-19.0') SAND, medium to coarse, subangular; little granules, subangular; trace silt; poorly sorted; wet; yellowish brown (10YR 5/6). Note: Moderate odor.		
				0.0			(19.0-23.5') SAND, very fine to fine, subrounded; trace silt; well sorted; wet; grayish brown (10YR 5/2).		
20 -20				0.0					
	5	20.0-25.0	5.0	0.0					20.0-25.0' bgs (Native Slough)
				0.0			(23.5-24.0') SAND, very fine, subrounded; and SILT, non-plastic; well sorted; wet; grayish brown (10YR 5/2).		
				0.0			(24.0-25.0') SAND, very fine to fine, subrounded; trace silt; well sorted; wet; grayish brown (10YR 5/2).		
25 -25							End of boring at 25.0' bgs.		
30 -30									
35 -35									

Remarks: Hand Auger to 5.0' bgs.

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Date Start: 5/28/2013
Date Finish: 5/28/2013
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Sonic
Sampling Method: 6" Core barrel
Rig Type: Mini Sonic
Water Level Start (ft. bgs.): 11.9' bgs
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 25.0
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **MW-36-06**

Client: RACER Trust

Location: RACER Buick City
Flint, MI

Weather Conditions: 60F, Rain

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0							(0.0-1.0') CONCRETE.		0.0-1.0' bgs (Cement)
	1	0.0-5.0	5.0	0.0 0.0 0.0 0.0			(1.0-9.0') CLAY, trace silt, low plasticity, rapid dilatancy; and SAND, very fine to fine, subrounded; little granules, subangular; poorly sorted; dry; brown (10YR 5/2).		1.0-8.0' bgs (Bentonite)
5 / -5	2	5.0-10.0	5.0	0.0 0.0 0.0 0.0 0.0			(9.0-18.0') SAND, fine to medium, subrounded; some silt; poorly sorted; wet; brown (10YR 5/2). Note: Moderate odor, sheen from 16.0-20.0' bgs.		
10 / -10	3	10.0-15.0	5.0	0.0 0.0 0.0 0.0 0.0			NOTE: Wet at 12.0' bgs.	▼	8.0-20.0' bgs (#1 K&E filterpack) 10.0-20.0' bgs (10-slot PVC screen)
15 / -15				0.0 0.0					

Remarks: Hand Auger to 5.0' bgs.

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Date Start: 5/28/2013
Date Finish: 5/28/2013
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Sonic
Sampling Method: 6" Core barrel
Rig Type: Mini Sonic
Water Level Start (ft. bgs.): 11.9' bgs
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 25.0
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **MW-36-06**

Client: RACER Trust

Location: RACER Buick City
Flint, MI

Weather Conditions: 60F, Rain

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
	4	15.0-20.0	5.0	0.0					
				0.0			(18.0-20.0') SAND, very fine, subrounded; and SILT, non-plastic, rapid dilatancy; well sorted; wet; gray (10YR 4/1).		
20 -20				0.0					
				0.0			(20.0-23.0') SAND, medium to coarse, subangular to subangular; little granules, subangular; poorly sorted; wet; dark yellowish brown (10YR 4/6).		
	5	20.0-25.0	5.0	0.0					20.0-25.0' bgs (Native Slough)
				0.0			(23.0-25.0') CLAY, high plasticity, slow to no dilatancy; moist; medium stiff; fark gray (10YR 4/1).		
25 -25				0.0					
							End of boring at 25.0' bgs.		
30 -30									
35 -35									

Remarks: Hand Auger to 5.0' bgs.

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Date Start: 5/24/2013
Date Finish: 5/24/2013
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Sonic
Sampling Method: 6" Core barrel
Rig Type: Mini Sonic
Water Level Start (ft. bgs.): 11.1' bgs
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 30.0
Surface Elevation: NA

Descriptions By: T. Stevens

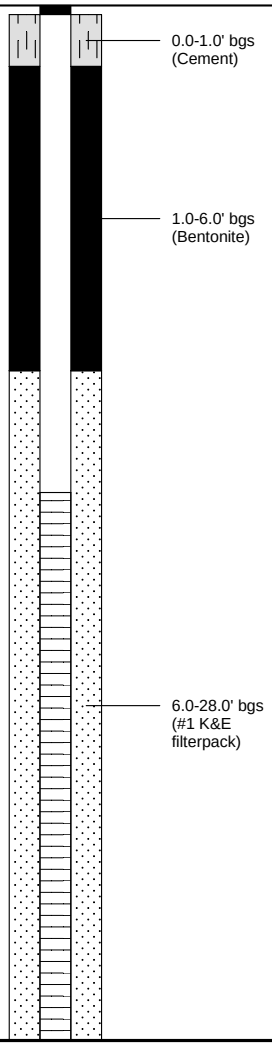
Well/Boring ID: **MW-36-07**

Client: RACER Trust

Location: RACER Buick City
Flint, MI

Weather Conditions: 50F, Cloudy

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0							(0.0-1.0') CONCRETE.	
	1	0.0-5.0	5.0	0.0 0.0 0.0 0.0			(1.0-3.0') SAND, fine to coarse, subrounded; little granules to small pebbles, subrounded to subangular; trace silt; poorly sorted; dry; dark grayish brown (10YR 4/2). Note: Strong odor. (3.0-4.0') CLAY, medium plasticity, slow dilatancy; and SAND, fine to medium, subrounded; poorly sorted; dry; brown (10YR 4/3). Note: Strong odor, wood. (4.0-10.0') CLAY, high plasticity, slow dilatancy; some fine sand; dry; grayish brown (10YR 5/2). Note: Slight odor.	
5 / -5								
	2	5.0-10.0	5.0	0.0 0.0 0.0 0.0 0.0				
10 / -10							(10.0-14.0') SAND, fine, subrounded; well sorted; wet; grayish brown (10YR 5/2). Note: Wet at 11.0' bgs, slight odor.	▼
	3	10.0-15.0	5.0	0.0 0.0 0.0 0.0			(14.0-17.0') SILT, non-plastic, rapid dilatancy; and SAND; very fine, subrounded to rounded; well sorted; wet; grayish brown (10YR 5/2). Note: Slight odor.	
15 / -15				0.0 0.0				



Remarks: Hand Auger to 5.0' bgs.

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Date Start: 5/24/2013
Date Finish: 5/24/2013
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Sonic
Sampling Method: 6" Core barrel
Rig Type: Mini Sonic
Water Level Start (ft. bgs.): 11.1' bgs
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 30.0
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **MW-36-07**

Client: RACER Trust

Location: RACER Buick City
Flint, MI

Weather Conditions: 50F, Cloudy

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
	4	15.0-20.0	5.0	0.0 0.0 0.0			(17.0-27.0') SAND, very fine to fine, rounded to subrounded; and SILT, some clay, non-plastic, rapid dilatancy; poorly sorted; wet; brown (10YR 5/3). Note: Slight odor, sheen from 20.0-25.0' bgs.		8.0-28.0' bgs (10-slot PVC screen)
20 -20									
	5	20.0-25.0	5.0	0.0 0.0 0.0 0.0 0.0					
25 -25									
	6	25.0-30.0	5.0	0.0 0.0 0.0 0.0 0.0			(27.0-30.0') CLAY, high plasticity, slow dilatancy, slow dilatancy; moist; soft; gray (10YR 5/1).		28.0-29.0' bgs (#1 K&E filterpack) 29.0-30.0' bgs (Bentonite)
30 -30							End of boring at 30.0' bgs.		
35 -35									

Remarks: Hand Auger to 5.0' bgs.

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Date Start: 9/12/13
Date Finish: 9/12/13
Drilling Company: Cascade
Driller's Name: Ralph Winn, Dan O'Mara
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 15.0' bgs.
Water Level Finish (ft. btoc.): NA

Northing: 568371.47
Easting: 13306112.12
Casing Elevation: 755.89

Borehole Depth (ft. bgs.): 20.0' bgs.
Surface Elevation: 756.19

Descriptions By: D.Shaw

Well/Boring ID: **MW-36-08**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny 75

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0				1.1			ASPHALT.		
				1.1			ASPHALT BASE.		
				1.0			CLAY, high plasticity, no dilatency; dry; stiff.		(1.0-2.0' bgs) Sand K&E #2
	1	0.0-5.0	5.0	1.1					
5 / -5				1.0					(2.0-5.0' bgs) Bentonite
				0.0					(0.5-10.0') 2" Sch 40 PVC Well Casing
				0.0					
				0.0					
				0.0					
				0.0					
10 / -10	2	5.0-15.0	10.0	0.0			SAND, fine to medium, subround; well sorted; dry; yellowish brown.		
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					(5.0-20.0' bgs) Sand K&E #2
15 / -15							Note: Wet at approximately 15.0' bgs.		(10.0-20.0') 2" Sch 40 PVC 0.010 Slot Well Screen
							CLAY, high plasticity, no dilatency; moist; stiff; gray.		
	3	15.0-20.0	5.0				Note: Interbedded, very fine, wet sand seams at approximately 17.0' bgs.		
20 / -20									

Remarks: bgs = below ground surface
btoc = below top of casing

Hand auger to 5.0' bgs.

ARCADIS
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Date Start: 9/12/13
Date Finish: 9/12/13
Drilling Company: Cascade
Driller's Name: Ralph Winn, Dan O'Mara
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 15.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 568371.47
Easting: 13306024.14
Casing Elevation: 756.09

Borehole Depth (ft. bgs.): 20.0' bgs
Surface Elevation: 756.06

Descriptions By: A. Richmond

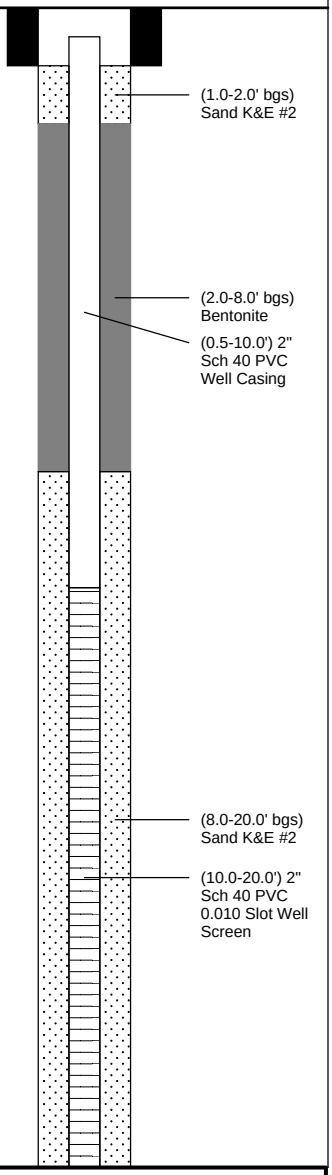
Well/Boring ID: **MW-36-09**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny 75

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
				NA			ASPHALT.		
				1.0			ASPHALT BASE.		
				1.0			CLAY, high plasticity, no dilatency; dry; stiff; brown (10YR 4/3).		
	1	0.0-5.0	4.0	1.0					
				1.0					
5 / -5				0.0					
				0.0					
				0.0					
				0.0					
10 / -10	2	5.0-15.0	10.0	0.0			SAND, fine to medium, subround; well sorted; dry; yellowish brown.		
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
15 / -15				0.0			SAND, very fine, little fine, well sorted; wet; gray.		
				0.0					
	3	15.0-20.0	5.0	0.0					
				0.0					
				0.0			Note: End of boring at 20.0' bgs.		



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Remarks: bgs = below ground surface
btoc = below top of casing

Hand auger to 5.0' bgs.

Date Start: 9/12/13
Date Finish: 9/12/13
Drilling Company: Cascade
Driller's Name: Ralph Winn, Dan O'Mara
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 14.0' bgs.
Water Level Finish (ft. btoc.): NA

Northing: 568034.86
Easting: 13306117.98
Casing Elevation: 754.68

Borehole Depth (ft. bgs.): 20.0' bgs.
Surface Elevation: 754.67

Descriptions By: D.Shaw

Well/Boring ID: **MW-36-10**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny 75

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
				1.0			ASPHALT.		
				1.0			ASPHALT BASE.		
				1.0			CLAY, high plasticity, no dilatency; dry; stiff; brown (10YR 4/3).		
	1	0.0-5.0	5.0	1.0					(1.0-2.0' bgs) Sand K&E #2
				1.0					
5 / -5				0.0					(2.0-5.0' bgs) Bentonite
				0.0					(0.5-10.0') 2" Sch 40 PVC Well Casing
				0.0					
				0.0					
				0.0			SAND, very fine to fine, well sorted; dry; brown (10YR 5/3).		
10 / -10	2	5.0-15.0	10.0	0.0					
				0.0					
				0.0					
				0.0					
				0.0			SAND, very fine, little silt, well sorted; wet; gray.		(5.0-20.0' bgs) Sand K&E #2
15 / -15				0.0					(10.0-20.0') 2" Sch 40 PVC 0.010 Slot Well Screen
				0.0					
				0.0					
	3	15.0-20.0	6.0	0.0					
				0.0					
				0.0			Note: End of boring at 20.0' bgs.		
20 / -20				0.0					

ARCADIS
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Remarks: bgs = below ground surface
btoc = below top of casing

Hand auger to 5.0' bgs.

Date Start: 5/20/2013
Date Finish: 5/20/2013
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Mini sonic
Sampling Method: 6" Core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 16.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 25.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **SB-36-01**

Client: RACER Trust

Location: RACER Buick City
Flint, MI

Weather Conditions: 80F, Sunny

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			(0.0-1.0') CONCRETE.		
				0.0			(1.0-3.0') SAND, very fine to medium, subrounded; trace granules, subrounded; poorly sorted; dry; black (10YR 2/1). Note: Fill.		
	1	0.0-5.0	5.0	0.0					
				0.0			(3.0-5.0') SILT and CLAY, low to non-plastic, moderate diltatancy; little fine sand, subrounded; dry; dark grayish brown (10YR 4/2).		
5 / -5				0.0					
				0.0			(5.0-10.0') CLAY, some silt, high plasticity, slow dilatancy, some granules to small pebbles, subrounded to rounded; little fine sand; poorly sorted; moist; dark yellowish brown (10YR 4/4).		
	2	5.0-10.0	5.0	0.0					
				0.0					
				0.0					
10 / -10				0.0			(10.0-20.0') SAND, fine to medium, subrounded; well sorted; moist; dark yellowish brown (10YR 4/4).		
				0.0					
	3	10.0-15.0	5.0	0.0					
				0.0					
15 / -15				0.0					
				0.0			NOTE: Slight odor from 16.0-25.0' bgs.		

Remarks: Hand Auger to 5.0' bgs.

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Date Start: 5/20/2013
Date Finish: 5/20/2013
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Mini sonic
Sampling Method: 6" Core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 16.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 25.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **SB-36-01**

Client: RACER Trust

Location: RACER Buick City
Flint, MI

Weather Conditions: 80F, Sunny

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
	4	15.0-20.0	5.0	0.0 0.0 0.0					
20 -20				0.0			(20.0-23.0') SAND, medium to very coarse, subrounded to subangular; some granules, subangular to angular; poorly sorted; wet; dark grayish brown (10YR 4/2). Note: Slight odor.		
	5	20.0-25.0	5.0	0.0 0.0					
				0.0			(23.0-25.0') SAND, very fine to fine, subrounded; trace silt; well sorted; wet; dark grayish brown (10YR 4/2).		
25 -25				0.0			End of boring at 25.0' bgs.		
30 -30									
35 -35									

Remarks: Hand Auger to 5.0' bgs.

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Date Start: 5/20/2013
Date Finish: 5/20/2013
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Sonic
Sampling Method: 6" Core barrel
Rig Type: Mini Sonic
Water Level Start (ft. bgs.): 17.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 20.0
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **SB-36-03**

Client: RACER Trust

Location: RACER Buick City
Flint, MI

Weather Conditions: 80F, Sunny

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0							(0.0-1.0') CONCRETE.		
	1	0.0-5.0	5.0	0.0 0.0 0.0 0.0			(1.0-7.0') CLAY, high plasticity, slow dilatancy, some fine to medium sand, subrounded, poorly sorted; dry; soft to medium stiff; brown (10YR 4/3).		
5 / -5				0.0 0.0					
	2	5.0-10.0	5.0	0.0 0.0 0.0			(7.0-8.2') SILT, non plastic, rapid dilatancy; and SAND, very fine, rounded; well sorted; moist; brown (10YR 4/3). (8.2-10.0') CLAY, trace silt, high plasticity, no dilatancy, little fine sand; subrounded; moist; soft; brown (10YR 4/3).		
10 / -10				0.0 0.0			(10.0-12.5') SAND, very fine to fine, subrounded; trace silt; well sorted; wet; brown (10YR 4/3). Note: Black (10YR 2/1) band of silt at 12.0' bgs.		
	3	10.0-15.0	5.0	0.0 0.0 0.0			(12.5-14.0') SAND, very fine, subrounded; and SILT, non-plastic; well sorted; brown (10YR 4/3). (14.0-20.0') SAND, fine to medium, subrounded; well sorted; wet; brown (10YR 4/3).		
15 / -15				0.0 0.0					
	4	15.0-20.0	5.0	0.0 0.0 0.0			NOTE: Wet at 17.0' bgs.	▼	
20 / -20							End of boring at 20.0' bgs.		

Remarks: Hand Auger to 5.0' bgs.

ARCADIS
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Date Start: 5/20/2013
Date Finish: 5/20/2013
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Sonic
Sampling Method: 6" Core barrel
Rig Type: Mini Sonic
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 5.5
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **SB-36-05**

Client: RACER Trust

Location: RACER Buick City
Flint, MI

Weather Conditions: 80F, Sunny

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0							(0.0-1.0') CONCRETE.		
				0.0			(1.0-2.0') SAND, medium, subrounded; and GRANULES, subrounded to subangular; little small pebbles, subrounded; poorly sorted; dry; brown (10YR 4/3).		
	1	0.0-5.5	5.0	0.0			(2.0-5.5') CLAY, little silt, high plasticity, slow dilatancy; some fine to medium sand, subrounded; dry; brown (10YR 4/3).		
				0.0					
5 / -5				0.0 0.0					
							End of boring at 5.5' bgs. Utility Strike.		
10 / -10									
15 / -15									
20 / -20									

Remarks: Hand Auger to 5.0' bgs.

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Date Start: 9/16/2013
Date Finish: 9/16/2013
Drilling Company: Cascade
Driller's Name: Ralph Winn, Walter Tidwell, Jason Greve
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 13.5' bgs
Water Level Finish (ft. btoc.): NA

Northing: 567638.87
Easting: 13306792.853
Casing Elevation: NA
Borehole Depth (ft. bgs.): 18.0' bgs
Surface Elevation: 754.18

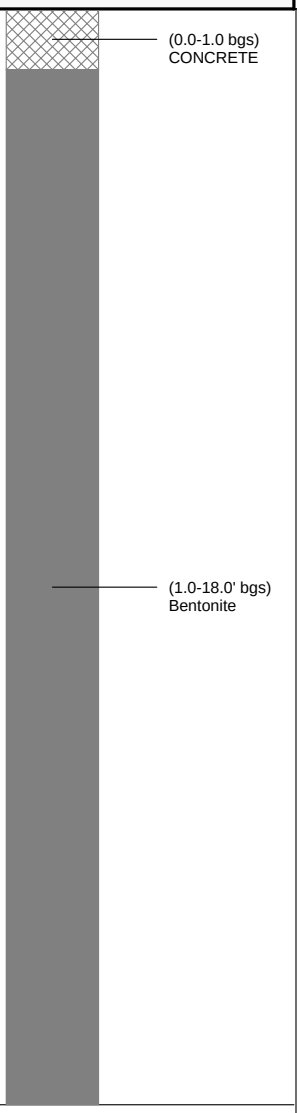
Descriptions By: D. Shaw

Well/Boring ID: SB-36-12
Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 65F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0							(0.0 - 1.0') CONCRETE.	
	1	0.0-5.0	3.3	44.5			(1.0 - 3.0') SAND, fine to coarse, subrounded; little clay; little granules, subrounded; poorly sorted; dry; very dark grayish brown (10YR 3/2).	
				73.1				
				290			(3.0 - 12.0') CLAY, low to medium plasticity, no dilatancy; some sand, fine to coarse, subrounded; dry; soft; dark grayish brown (2.5Y 4/2).	
5 / -5				644				
				10.5				
				44.1				
				42.5				
				45.1				
				43.5				
10 / -10	2	5.0-15.0	8.0	1,500				
				1,400				
				3,500			(12.0 - 17.5') SAND, very fine to fine, trace medium; well sorted; dry; dark grayish brown (2.5Y 4/2).	
				1,600			Note: Strong odor.	
				860			Note: Wet at 13.5' bgs.	
15 / -15				216				
	3	15.0-18.0	3.0	367				
				3.0			(17.5 - 18.0') CLAY, high plasticity, no dilatancy; medium stiff; moist; gray.	
20 / -20							NOTE: End of boring at 18.0' bgs.	



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Remarks: bgs = below ground surface.

Hand auger to 5.0' bgs.
SB-36-12 (12-13) collected at 1230.

Shake tests negative from 1.0 to 3.0' bgs; 5.0-9.0' bgs; and 17.0-18.0' bgs. Shake tests positive from 3.0-5.0' bgs and 9.0-16.0' bgs.

Date Start: 9/16/2013
Date Finish: 9/16/2013
Drilling Company: Cascade
Driller's Name: Ralph Winn, Jason Greve
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 11.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 567590.096
Easting: 13306752.909
Casing Elevation: NA

Borehole Depth (ft. bgs.): 20.0' bgs
Surface Elevation: 753.93

Descriptions By: D. Shaw

Well/Boring ID: **SB-36-13**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 60F

DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0	0				0.5			(0.0 - 0.5') CONCRETE.		(0.0-0.5' bgs) CONCRETE
					48.1			(0.5 - 3.5') SAND, fine to medium, subround; trace granules, subround; well sorted; dry; yellowish brown.		
		1	0.0-5.0	4.16	132			Note: Transition to black (10YR 2/1) at 2.0' bgs.		
					117			(3.5 - 8.0') CLAY, low plasticity, no dilatancy; and SAND, fine to medium, trace granules, subround; dry; soft.		
5	-5				208					
					130					
					250					
					1300			(8.0 - 19.0') SAND, very fine to fine, trace medium; well sorted; dry.		
					2300					
					2600					
10	-10	2	5.0-15.0	8.33	3800			Note: Strong odor from 8.0 to 19.0' bgs.		(0.5-20.0' bgs) Bentonite
					2500			Note: Wet at 11.0' bgs.		
					2100					
					1900					
					2215					
15	-15				2000					
					1950					
		3	15.0-20.0	5.0	700					
					230					
					80.5			(19.0 - 20.0') CLAY, high plasticity, no dilatancy; moist; soft; gray.		
20	-20									

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Remarks: NOTE: End of boring at 20.0' bgs (bgs = below ground surface)

Hand auger to 5.0' bgs.
SB-36-13 (10-11) collected at 1450.

Shake test negative from 0.0 to 9.0' bgs; positive from 9.0 to 17.0' bgs; and negative from 19.0 to 20.0' bgs.

Date Start: 9/16/2013
Date Finish: 9/16/2013
Drilling Company: Cascade
Driller's Name: Ralph Winn, Jason Greve
Drilling Method: Hand Auger
Sampling Method: Hand Auger
Rig Type: Hand Auger
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: 567638.666
Easting: 13306708.311
Casing Elevation: NA

Borehole Depth (ft. bgs.): 3.0' bgs
Surface Elevation: 754.16

Descriptions By: D. Shaw

Well/Boring ID: **SB-36-14**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 60F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0				NA			(0.0 - 1.0') (0.0-1.0') CONCRETE.		(0.0-1.0' bgs) CONCRETE
	1	0.0-3.0	2.0	34.7			(1.0 - 3.0') SAND, very fine to coarse, subround; trace granules to small pebbles, subround; poorly sorted; moist; black (10YR 2/1). Note: Strong odor from 1.0 to 3.0' bgs. Note: Concrete at 3.0' bgs.		(1.0-3.0' bgs) Bentonite
				114					
5 -5							NOTE: End of boring at 3.0' bgs.		
10 -10									
15 -15									

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Remarks: bgs = below ground surface

Hand auger to 3.0' bgs.
SB-36-14 (1-2) collected at 1630.

Shake test negative from 0.0 to 3.0' bgs.

Date Start: 9/17/2013
Date Finish: 9/17/2013
Drilling Company: Cascade
Driller's Name: Ralph Winn, Jason Greve
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.0' bgs.
Water Level Finish (ft. btoc.): NA

Northing: 567692.394
Easting: 13306755.632
Casing Elevation: NA

Borehole Depth (ft. bgs.): 20.0' bgs.
Surface Elevation: 754.12

Descriptions By: D. Shaw

Well/Boring ID: **SB-36-15**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 70F

DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0	0							(0.0 - 0.5') CONCRETE.		(0.0-0.5' bgs) CONCRETE
					1.5			(0.5 - 5.0') SAND, very fine to coarse, subround; trace granules to small pebbles, subround; poorly sorted; dry; brown (10YR 4/3).		
					4.6					
		1	0.0-5.0	5.0	2.5			Note: Transition to very dark brown at 3.0' bgs.		
					58.1					
					40.4					
5	-5							(5.0 - 10.0') CLAY, medium plasticity, no dilatency; little silt to very fine sand; dry; medium stiff; brown (10YR 5/3).		
					1.3					
					1.4					
		2	5.0-10.0	5.0	1.2					
					1.4					
					2.6					
10	-10							(10.0 - 19.0') SAND, very fine to medium; well sorted; wet.		(0.5-20.0' bgs) Bentonite
					55.5					
					51.2					
		3	10.0-15.0	4.0	58.6					
					215					
					35.1					
15	-15									
					24.0					
					20.1					
		4	15.0-20.0	5.0	25.3					
					20.5					
					15.1			(19.0 - 20.0') SAND, very fine to fine; well sorted; wet; gray.		
20	-20									

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Remarks: NOTE: End of boring at 20.0' bgs (bgs = below ground surface)

Hand auger to 5.0' bgs.
SB-36-15 (3-4) collected at 1005.

Shake test negative from 0.0 to 11.0' bgs; positive from 11.0 to 19.0' bgs; and negative from 19.0 to 20.0' bgs.

Date Start: 10/15/2013
Date Finish: 10/15/2013
Drilling Company: Cascade
Driller's Name: Steve Gross, Steve Argue
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 8.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 567635.10
Easting: 13306627.30
Casing Elevation: NA

Borehole Depth (ft. bgs.): 25.0' bgs
Surface Elevation: 754.13

Descriptions By: A. Richmond

Well/Boring ID: **SB-36-16**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 60F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0							CONCRETE.		(0.0-4.0' bgs) CONCRETE
	1	0.0-4.0	4.0	NA NA					
	2	4.0-5.0	1.0	91.3			SAND, fine, little silt; trace granules, subangular to subround; poorly sorted; dry; light olive brown (2.5Y 5/4).		
5 / -5				4.3			Note: Moderate odor.		
	3	5.0-10.0	5.0	3.6 2.6 5.7 24.1			SILT, low plasticity, rapid dilatency, trace sand, fine, little granules, subangular to subround; wet; soft; olive brown (2.5Y 4/6). Note: Little odor and staining from 8.0 to 10.0' bgs. Wet at 8.0' bgs.		
10 / -10				27.2			SAND, medium, little fine, trace small pebbles, subround; trace silt; poorly sorted; wet; olive (5Y 4/3).		(4.0-25.0' bgs) Bentonite
	4	10.0-15.0	5.0	9.9 7.1 6.3 6.3					
15 / -15				2.0					
	5	15.0-20.0	5.0	0.6 0.8 1.0 0.3					
20 / -20							SILT, nonplastic, rapid dilatency, little sand, fine, wet; very soft; dark gray (2.5Y 4/1).		

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Remarks: bgs = below ground surface

Hand auger from 4.0 - 5.0' bgs.
SB-36-16 (4-5) collected at 1400.

Shake test negative from 4.0 to 5.0' bgs; 6.0 to 7.0' bgs; 13.0 to 14.0' bgs; and 14.0 to 15.0' bgs. Shake test positive from 5.0 to 6.0' bgs; 7.0 to 8.0' bgs; 9.0 to 10.0' bgs; and 12.0 to 13.0' bgs.

Date Start: 10/15/2013
Date Finish: 10/15/2013
Drilling Company: Cascade
Driller's Name: Steve Gross, Steve Argue
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 8.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 567635.10
Easting: 13306627.30
Casing Elevation: NA

Borehole Depth (ft. bgs.): 25.0' bgs
Surface Elevation: 754.13

Descriptions By: A. Richmond

Well/Boring ID: **SB-36-16**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 60F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
	6	20.0-25.0	5.0	0.0 0.0 0.0			CLAY, high plasticity, no dilatency, trace medium pebbles, subround; dry; soft; dark gray (2.5Y 4/1).		
25 -25							Note: End of boring at 25.0' bgs.		
30 -30									
35 -35									
40 -40									

Remarks: bgs = below ground surface

Hand auger from 4.0 - 5.0' bgs.
SB-36-16 (4-5) collected at 1400.

Shake test negative from 4.0 to 5.0' bgs; 6.0 to 7.0' bgs; 13.0 to 14.0' bgs; and 14.0 to 15.0' bgs. Shake test positive from 5.0 to 6.0' bgs; 7.0 to 8.0' bgs; 9.0 to 10.0' bgs; and 12.0 to 13.0' bgs.

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Date Start: 10/15/2013
Date Finish: 10/15/2013
Drilling Company: Cascade
Driller's Name: Steve Gross, Steve Argue
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 567711.89
Easting: 13306838.10
Casing Elevation: NA

Borehole Depth (ft. bgs.): 20.0' bgs
Surface Elevation: 754.34

Descriptions By: A. Richmond

Well/Boring ID: **SB-36-17**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 60F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0.0-3.0	3.0	NA NA			CONCRETE.		(0.0-3.0' bgs) CONCRETE
5 / -5	2	3.0-5.0	2.0	7.4 2.0			SILT, nonplastic, rapid dilatancy, trace medium pebbles, angular; dry; stiff; very dark brown (10YR 2/2). Note: Transition to olive brown (2.5Y 4/6) at 4.0' bgs. Little odor and slag (tire and metal chunks) from 3.0 to 4.0' bgs.		
	3	5.0-10.0	5.0	0.8 0.7 0.3 1.3 3.1			SAND, fine, little medium, trace granules, subangular; trace silt; poorly sorted; dry; light olive brown (2.5Y 5/4). Note: Wet at 10.0' bgs.		
10 / -10	4	10.0-15.0	5.0	2.1 2.3					(3.0-20.0' bgs) Bentonite
15 / -15	5	15.0-20.0	5.0	0.3 0.2 0.2			SAND, very fine, little silt, trace granules, subangular to subround; poorly sorted; wet; light olive brown (2.5Y 5/3). Note: End of boring at 20.0' bgs.		
20 / -20									

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Remarks: bgs = below ground surface

Hand auger from 3.0 - 5.0' bgs.
SB-36-17 (3-4) collected at 1520.

Shake test negative from 5.0 to 6.0' bgs; 9.0 to 10.0' bgs; and 13.0 to 14.0' bgs.

Date Start: 10/15/2013
Date Finish: 10/15/2013
Drilling Company: Cascade
Driller's Name: Steve Gross, Steve Argue
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 567493.67
Easting: 13306887.19
Casing Elevation: NA

Borehole Depth (ft. bgs.): 20.0' bgs
Surface Elevation: 753.66

Descriptions By: A. Richmond

Well/Boring ID: **SB-36-18**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 60F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0	1	0.0-2.0	2.0	NA			CONCRETE.		(0.0-2.0' bgs) CONCRETE
	2	2.0-5.0	3.0	2.9 6.2 0.0			SAND, medium, little medium pebbles, subangular; little silt; poorly sorted; dry; olive brown (2.5Y 4/6). Note: Little odor with concrete and metal chunks from 2.0 to 5.0' bgs.		
5 -5	3	5.0-10.0	5.0	0.0 175 83.3 36.7 66.8			SILT, nonplastic, rapid dilatancy, little sand, fine, little small pebbles, subround; dry; stiff; olive gray (5Y 4/2). SAND, fine, little silt, little granules, subangular to subround; poorly soted; wet; dark gray (5Y 4/1). Note: Wet at 6.0' bgs. Note: Strong odor and staining from 6.0 to 13.0' bgs.		
10 -10	4	10.0-15.0	5.0	148 361 371 0.6 0.1					(2.0-20.0' bgs) Bentonite
15 -15	5	15.0-20.0	5.0	0.0 0.0 0.0			SAND, very fine, some silt, trace small pebbles, subround; poorly sorted; wet; olive gray (5Y 4/2). Note: End of boring at 20.0' bgs.		
20 -20									

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Remarks: bgs = below ground surface

Hand auger from 2.0 - 5.0' bgs.
SB-36-18 (5-6) collected at 1630.

Shake test negative from 4.0 to 5.0' bgs and 14.0 to 15.0' bgs. Shake test positive from 5.0 to 6.0' bgs; 6.0 to 7.0' bgs; 12.0 to 13.0' bgs; and 13.0 to 14.0' bgs.

Date Start: 10/17/2013
Date Finish: 10/17/2013
Drilling Company: Cascade
Driller's Name: Steve Gross, Steve Argue
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 4.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 567567.49
Easting: 13307004.74
Casing Elevation: NA

Borehole Depth (ft. bgs.): 20.0' bgs
Surface Elevation: 750.60

Descriptions By: A. Richmond

Well/Boring ID: **SB-36-19**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Rain, 50F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0.0-2.5	2.5	NA			CONCRETE.		(0.0-2.5' bgs) CONCRETE
				NA			SILT, low plasticity, trace sand, medium, trace medium pebbles, subround; dry; soft; olive brown (2.5Y 4/4).		
	2	2.5-5.0	2.5	0.7			SAND, medium, trace silt; well sorted; moist; dark gray (5Y 4/1).		
				6.3					
				6.2			Note: Wet at 4.0' bgs.		
5 / -5	3	5.0-10.0	5.0	1.8					
				1.6					
				1.8					
				1.2			Note: Strong odor and staining from 3.0 to 13.0' bgs.		
				1.8					
10 / -10	4	10.0-15.0	5.0	2.1					(2.5-20.0' bgs) Bentonite
				1.6			SAND, fine, some silt; trace granules, subangular to subround; poorly sorted; wet; olive gray (5Y 5/2).		
				0.0					
15 / -15	5	15.0-20.0	5.0	1.2			CLAY, high plasticity, slow dilatancy, trace small pebbles, subangular to subround; wet; soft; dark gray (2.5Y 4/1).		
				0.9			SAND, medium, little granules, subangular to subround; well sorted; wet; grayish brown (2.5Y 5/2).		
20 / -20							Note: End of boring at 20.0' bgs.		

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Remarks: bgs = below ground surface

Hand auger from 2.5 - 5.0' bgs.
SB-36-19 (3-4) collected at 0930.

Shake test negative from 2.5 to 3.0' bgs; 14.0 to 15.0' bgs; and 18.0-19.0' bgs. Shake test positive from 3.0 to 4.0' bgs; 6.0 to 7.0' bgs; 9.0 to 10.0' bgs; and 12.0 to 13.0' bgs.

Date Start: 10/17/13
Date Finish: 10/17/13
Drilling Company: Cascade
Driller's Name: Steve Gross, Steve Argue
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 4.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 567644.41
Easting: 13307023.09
Casing Elevation: NA

Borehole Depth (ft. bgs.): 18.0' bgs
Surface Elevation: 750.78

Descriptions By: A. Richmond

Well/Boring ID: **SB-36-20**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Rain, 50F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
				NA			(0.0 - 1.0') CONCRETE.		(0.0-1.0' bgs) CONCRETE
				1.5			(1.0 - 2.0') SAND, medium, some silt; little granules, subangular to subround; trace medium pebbles, subangular; poorly sorted; wet; olive brown (2.5Y 4/4).		
							Note: Wet from 1.0 to 2.0' bgs due to drilling water.		
	1	0.0-5.0	5.0	1.6			(2.0 - 4.0') SAND, medium, little silt; trace granules, subangular; poorly sorted; moist; light olive brown (2.5Y 5/4).		
							Note: Wet at 4.0' bgs.		
				1.7			(4.0 - 5.0') SILT, nonplastic, some sand, medium; little granules, subangular to subround; trace medium pebbles, angular; wet; very soft; dark olive gray (5Y 3/2).		
5 / -5				0.5			(5.0 - 8.0') SAND, medium, some silt; little medium pebbles, subangular; little granules, subangular; poorly sorted; wet; dark olive gray (5Y 3/2).		
							Note: Little odor and staining from 4.0 to 5.0' bgs.		
	2	5.0-10.0	5.0	0.6			Note: Little odor from 5.0 to 8.0' bgs.		
				1.7			(8.0 - 9.0') SILT, medium plasticity, rapid dilatency; trace sand, fine; trace medium pebbles, subangular; dry; stiff; olive brown (2.5Y 4/4).		
							Note: Staining and little odor from 8.0 to 9.0' bgs.		(1.0-18.0' bgs) Bentonite
				3.0			(9.0 - 14.5') SAND, medium, some silt; trace granules, subangular to subround; poorly sorted; wet; dark gray (5Y 4/1).		
10 / -10				1.3					
	3	10.0-15.0	5.0	2.1			Note: Strong odor, sheen, and staining from 9.0 to 14.5' bgs.		
							(14.5 - 17.5') SAND, medium, trace granules, subangular to subround; well sorted; wet; dark grayish brown (2.5Y 4/2).		
15 / -15				2.3					
	4	15.0-18.0	3.0	0.0			(17.5 - 18.0') CLAY, high plasticity, no dilatency; dry; stiff; dark gray (2.5Y 4/1).		
							Note: End of boring at 18.0' bgs.		

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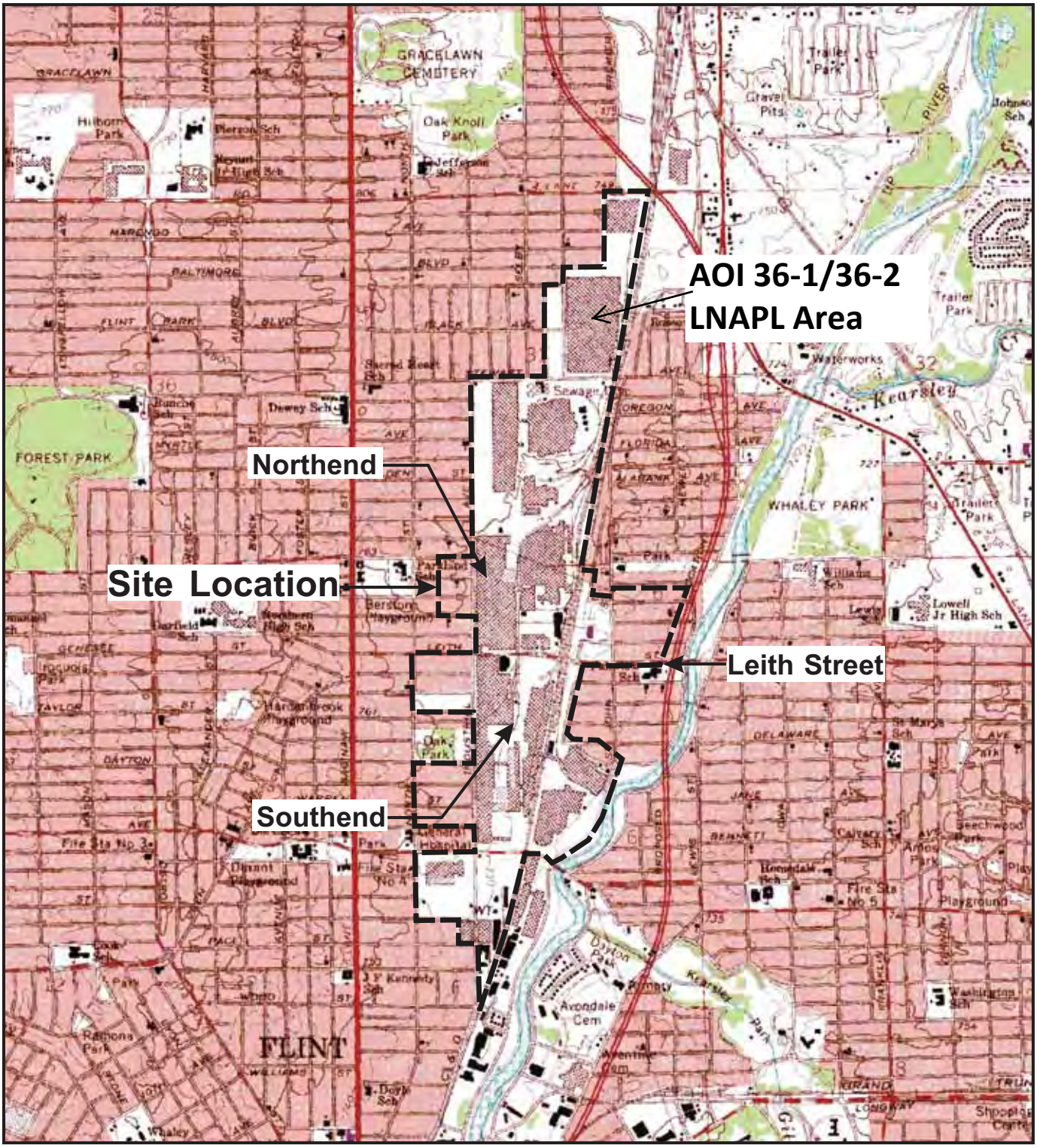
Remarks: bgs = below ground surface

Hand auger from 1.0 - 5.0' bgs.
SB-36-20 (8-9) collected at 1030.

Shake tests negative from 4.0 to 5.0' bgs; 6.0 to 7.0' bgs; 8.0-9.0' bgs; and 17.0-18.0' bgs. Shake tests positive from 9.0 to 10.0' bgs; 12.0 to 13.0' bgs; 14.0 to 15.0' bgs; and 15.0 to 16.0' bgs.

ARCADIS

Figures



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quad., Flint North, Mich. (1969, Photorevised 1975).

2000' 0 2000'

Approximate Scale: 1" = 2000'



Area Location

RACER TRUST
BUICK CITY, FLINT, MICHIGAN

SITE LOCATION MAP

ARCADIS

FIGURE
G1-1

03/12/2012 SYRACUSE, NY-ENV/CAD-141-DJHOWES
B0064410/2012/01202/CDR/64410N01.CDR

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON='OFF='REF'
G:\ENVCAD\SYRACUSE\ACTIB\0064410\2014\0020618\64410_AOI 36-1-2.dwg LAYOUT: G1-2 SAVED: 9/4/2014 2:10 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 9/4/2014 2:11 PM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME: ----

FORMER AOI 36-2
MINERAL SEAL
HYDRAULIC OIL AREA

FORMER AOI 36-1
GASOLINE AREA

FORMER AOI 36-1
MINERAL SEAL
HYDRAULIC OIL AREA

AOI 36-1/36-2
LNAPL AREA

SOUTHEASTERN PORTION OF
AOI 36-1/36-2 LNAPL AREA

CENTRAL PORTION OF
AOI 36-1/36-2 LNAPL AREA

NORTHWESTERN PORTION OF
AOI 36-1/36-2 LNAPL AREA

AOI 36-1

BLDG. 36

06

DRAGE AREA

EMPLOYEE

PARKING

EMPLOYEE

EMPLOYEE

PARKING

PARKING

EMPLOYEE

STEWART AVE.

ANDREWS ST.

TIMORE

AGER

55

LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- APPROXIMATE AOI BOUNDARY
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- APPROXIMATE AREA WHERE LNAPL CONSISTS PRIMERALY OF WEATHERED GASOLINE
- GENERAL GROUNDWATER FLOW DIRECTION

LASER INDUCED FLUORESCENCE RESPONSE (%RE)
COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200
- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 80' 160'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 36-1/36-2 INVESTIGATION LOCATIONS AND LNAPL E□TENTS

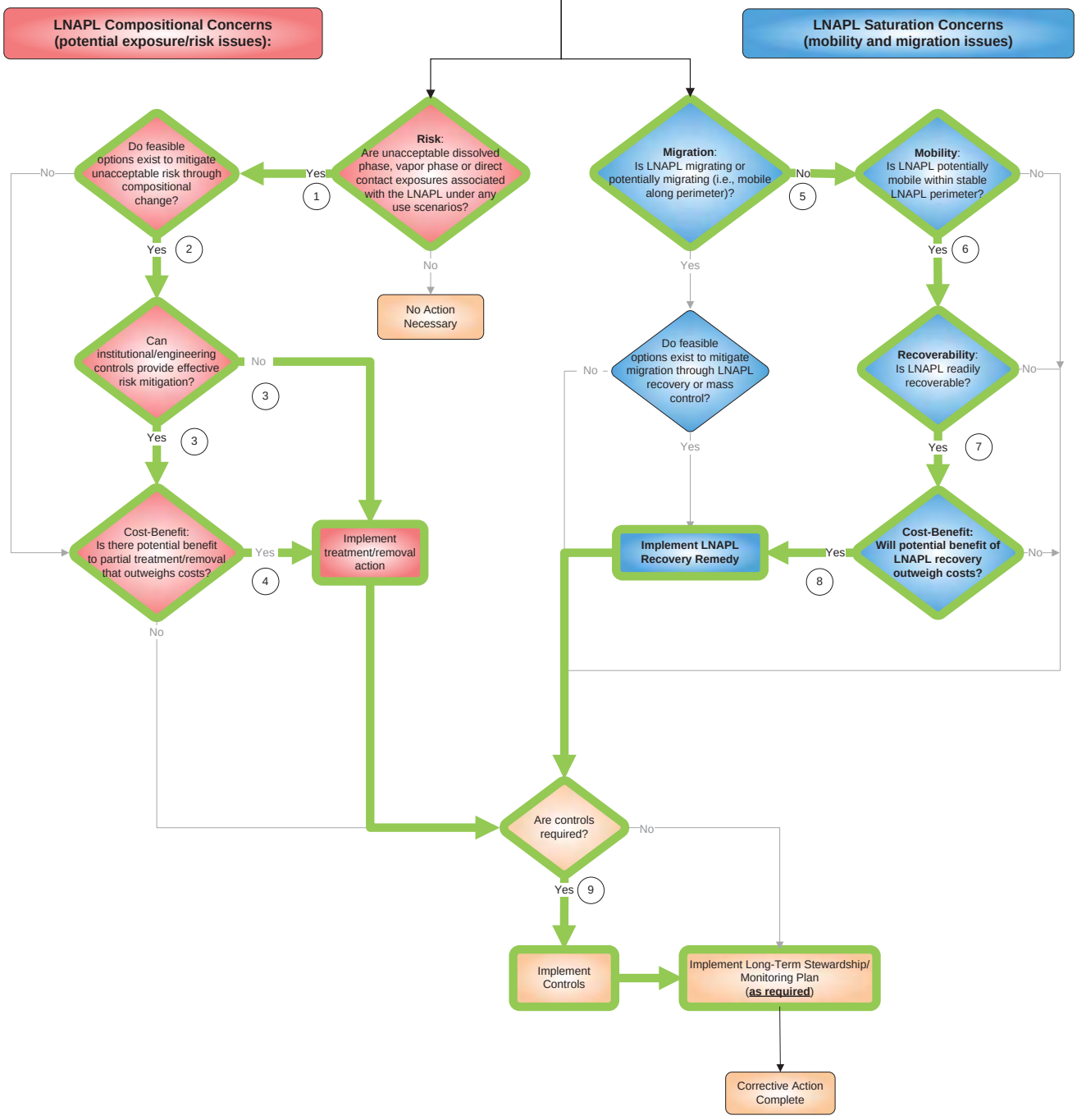
ARCADIS

FIGURE
G1-2

Attachment 2

LNAPL Remedial Decision Tree

Attachment 2
LNAPL Remedial Decision Tree
Priorities #8, 14 & 15 – AOI 36-1/36-2 LNAPL Area



NOTES

(#) NOTES: See Page G2-2

Please see Appendix W for the LNAPL Remedial Decision Tree Template that lists additional sources of pertinent information used in the evaluation of the decision points (i.e. tables).

Attachment 2 Notes

Priorities #8, 14, & 15 - AOI 36-1/36-2 LNAPL Area

Background: The AOI 36-1/36-2 LNAPL Area is located at the Northend of the Site in the former Factory 36 Area. Historically, the former Factory 36 Area was primarily used for engine manufacturing and metal machining processes. The occurrence of the AOI 36-1/36-2 plume is presumably due to historical releases associated with operations in this area. There are currently no buildings within the AOI 36-1/36-2 LNAPL Area. Previously there were three LNAPL Areas (the AOI 36-1 Gasoline Area, the AOI 36-2 Exterior Mineral Seal/Hydraulic Oil [MS/HO] Area, and the AOI 36-1 MS/HO Area) identified in the Factory 36 Area. However, based on the results of recently completed Site investigation activities the LNAPL areas appear to be co-mingled and are discussed herein as the AOI 36-1/36-2 LNAPL Area.

Geology and Hydrogeology: The soils at the AOI 36-1/36-2 Area consist primarily of interbedded fine sands, silts and clays down to approximately 27 feet bgs. Depth to groundwater has been measured as shallow as 9 feet bgs and as deep as 15 feet bgs in the southeastern portion of the AOI 36-1/36-2 LNAPL Area, as shallow as 8 and as deep as 16 feet bgs in the central portion, and as shallow as 11 and as deep as 21 feet bgs in the northwestern portion of the AOI 36-1/36-2 LNAPL Area. Based on historic groundwater level gauging data, groundwater flow in this portion of the Site is generally to the east and northeast.

LNAPL Characteristics: Logs in the AOI 36-1/36-2 LNAPL Area show evidence of LNAPL impacts from as shallow as 4 feet bgs and 19 feet bgs in the southeastern and central portions and as shallow as 11 feet bgs and as deep as 24 feet bgs in the northwestern portion of the AOI 36-1/36-2 LNAPL Area. Eleven LNAPL samples have been collected from the AOI 36-1/36-2 Area and submitted for analysis. Laboratory results indicate the following:

- In the northwestern portion of the AOI 36-1/36-2 LNAPL Area (formerly known as the AOI 36-1 MS/HO area) the LNAPL has a viscosity of 18.5 centipoise (cp) and a specific gravity of 0.88, and an ignitability of greater than 200 degrees Fahrenheit. In addition, trichloroethene was found at 4.19 parts per million (ppm), which exceeds RCRA toxicity characteristic criteria; however, TCLP analysis has not been conducted.
- In the central portion of the AOI 36-1/36-2 Area (formerly known as the AOI 36-1 Gasoline area) the LNAPL has a viscosity of 2.2 cp, an interfacial tension of 0.54 dynes/centimeter, a specific gravity of 0.83, and an ignitability of 50 degrees Fahrenheit. In addition, benzene is present at concentrations up to 2,900 ppm, which exceeds RCRA toxicity characteristic criteria; however, TCLP analysis has not been conducted.
- In the southeastern portion of the LNAPL Area (formerly known as the AOI 36-2 MS/HO area) the LNAPL has a viscosity of 24.3 cp, an interfacial tension of 24 dynes/centimeter, a specific gravity of 0.90, and an ignitability of greater than 200 degrees Fahrenheit. In addition benzene has been detected at concentrations up to 1,300 ppm, which exceeds RCRA toxicity characteristic criteria; however, TCLP analysis has not been conducted.

1) *Are unacceptable dissolved phase, vapor phase, or direct contact exposures associated with the LNAPL under any use scenarios?*

YES – The following potential risk/exposure concerns are associated with the AOI 36-1/36-2 LNAPL Area:

- Soil Volatilization to Indoor Air Concerns*:* Soil samples collected from RFI-36-07, RFI-36-30, SB-36-12, and SB-36-13, located in the central portion of the AOI 36-1/36-2 LNAPL Area, exceed Non-residential Soil Volatilization to Indoor Air (NSVIA) criteria for benzene, ethylbenzene, and/or toluene.

  Volatilization to indoor air concern was also identified at AOI 36-1 in the Human Health Risk Assessment (HHRA) presented in the RCRA Facility Investigation (RFI) Phase II Report (BBL, 2006). In the HHRA, the potential exposure of routine workers to soil and LNAPL via vapor intrusion was identified as a risk.

- Volatile Soil Inhalation (Ambient Air) Concerns: Soil samples collected from RFI-36-07 and SB-36-13, located in the southeastern portion of the AOI 36-1/36-2 LNAPL Area, exceed Non-residential Infinite Source Volatile Soil Inhalation (NISVI) criteria for benzene and/or toluene.

- Direct Contact Concerns: The HHRA identified LNAPL as a direct contact concern for construction workers and maintenance workers at AOI 36-1. The majority of the AOI 36-1/36-2 LNAPL area is located beneath the former Factory 36 concrete slab. The shallowest LNAPL impacts are located approximately eight feet below ground surface, and represent a potential concern for future construction or utility workers. Arsenic was detected in the LNAPL in the northwestern portion of the AOI 36-1/36-2 LNAPL Area at RFI-36-15 at a concentration exceeding direct contact criteria; however, the exceedance is at a depth of 14 to 16 ft bgs and, therefore, not a direct contact concern.

- Potential Volatilization to Indoor Air Concerns for Future Structures*:* Theoretically, there is a potential unacceptable vapor phase exposure risk associated with methane for future redevelopment scenarios; however, this will be addressed by the proposed institutional controls.

Attachment 2 Notes

Priorities #8, 14, & 15 - AOI 36-1/36-2 LNAPL Area

2) *Do feasible options exist to mitigate unacceptable risk through compositional change?*
   YES – LNAPL constituents in the central portion of the AOI 36-1/36-2 LNAPL Area have high volatility making multi-phase extraction (MPE) a feasible option as contaminant would readily partition in the vapor phase. LNAPL constituents in the northwestern portion of the AOI 36-1/36-2 LNAPL Area are less volatile; therefore, compositional change may be impractical.
3) *Can institutional/engineering controls provide effective risk mitigation?*
   YES and NO – Based on the understanding of site conditions, the remaining vapor phase, and direct contact risk can be effectively mitigated through institutional controls.
4) *Is there potential benefit to partial treatment/removal that outweighs costs?*
   YES – Based on the current understanding of the conceptual site model volatile soil inhalation (ambient air) concerns in the central portion of the AOI 36-1/36-2 LNAPL Area cannot be effectively addressed through engineering or institutional controls and therefore treatment/removal is recommended.
5) *Is LNAPL migrating or potentially migrating (i.e. mobile along the perimeter)?*
   NO – The AOI 36-1/36-2 LNAPL Area appears to be stable. This finding is supported by the following lines of evidence:
   - Well Gauging Data: Sentinel wells located downgradient of the of the AOI 36-1/36-2 LNAPL Area have remained free of LNAPL since monitoring began approximately 10 years ago.
   - Age of LNAPL Release: The AOI 36-1/36-2 LNAPL Area was identified between 1998 and 2001. Operations began in this portion of the Site in the 1950's and ceased in this portion of the Site in early 2009. LNAPL bodies typically stabilize within 2 to 5 years after a release has been stopped (ITRC, 2012).
6) *Is LNAPL mobile within the stable LNAPL perimeter?*
   YES – LNAPL from the AOI 36-1/36-2 Area accumulates in monitoring wells and had been infiltrating the Outfall 002 storm sewer. The Outfall 002 storm sewer has been bulkheaded to eliminate the LNAPL migration pathway.
7) *Is LNAPL readily recoverable?*
   YES and NO– Based on the high volatility of LNAPL and interbedded sands in the central portion of the LNAPL Area, some LNAPL mass is likely able to be recoverable through MPE. However, the results of historic interim measures (IM) indicate that limited LNAPL has been recovered in the AOI 36-1/36-2 LNAPL Area through hydraulic recovery, which is consistent with recent transmissivity testing. These activities are summarized below:

   - During the Site-wide LNAPL monitoring program conducted from 2001 through 2005, a total of approximately 150 gallons of LNAPL was recovered during quarterly bailing events.
   - Between 2005 and 2010, approximately 314 gallons of LNAPL were removed using three product recovery wells in the southeastern portion of the AOI 36-1/36-2 LNAPL Area.

   Based on the transmissivity testing results of 0.03 ft^2/day at MW-36-06 in the northwestern portion of the AOI 36-1/36-2 LNAPL Area, hydraulic recovery is not practical. The transmissivity result is below both the ITRC and MDEQ draft standard threshold values indicating that LNAPL recovery is not practicable. LNAPL recovery efforts (through hydraulic-based remediation methods) will not likely result in a beneficial reduction in overall LNAPL mass or exposure risk in the northwestern portion of the AOI 36-1/36-2 LNAPL Area.
8) *Will the potential benefit of LNAPL recovery outweigh costs?*
   YES – Implementation of an MPE system in the central portion of the AOI 36-1/36-2 LNAPL Area would be likely to cost effectively reduce the LNAPL source mass and/or reduce exposure risks associated with volatilization because of the volatile gasoline component. LNAPL recovery in the northwestern portion of the AOI 36-1/36-2 LNAPL Area would not reduce the exposure risks associated with volatilization due to the lower volatility LNAPL constituents.
9) *Are controls required?*
   YES – In addition to the Site-wide Institutional Controls discussed in the main report the following institutional and engineering controls are proposed for the AOI 36-1/36-2 LNAPL Area to limit future exposure:
   - Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads, as shown on **Figure 5 in the main report**.
   - Prohibit any excavation or other intrusive activity that could affect the integrity of the surface cover that is present (as shown on **Figure G3-1**) to prevent direct contact with contaminated material, except with using appropriate health and safety measures, during short-term construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the surface cover, that could affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original barrier within a reasonable timeframe. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that demonstrates

that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the Natural Resources and Environmental Protection Act.

- Require that any intrusive activities (i.e., excavation, repair of foundation or subsurface utilities, short-term construction and landscaping projects) into the subsurface beneath the cap must be consistent with MIOSHA requirements, including the use of a Health and Safety Plan and a trained professional to evaluate the Site data prior to initiating activities. All relevant Site data must be made available for the preparation of the Health and Safety Plan. Data may be made available as part of the Due Care Plan, RFI, or other document(s).

Attachment 3

Remedy Recommendations

Priorities #8, 14, & 15 – AOI 36-1/36-2 LNAPL Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 3 – Recommended Remedy

This attachment presents the recommended remedies for the area of interest (AOI) 36-1/36-2 light non-aqueous phase liquid (LNAPL) Area.

1. Compositional and Saturation Concerns

The LNAPL Decision Tree Analysis presented in **Attachment 2** identified soil volatilization to indoor air, volatile soil inhalation (ambient air), direct contact, and potential volatilization to indoor air for future structures as compositional concerns for AOI 36-1/36-2 LNAPL Area. The mobility concern was due to the infiltration of LNAPL to the Outfall 002 storm sewer.

2. Remedy Recommendation Rationale

The remedies recommended to address the compositional and saturation concerns associated with the AOI 36-1/36-2 LNAPL Area are 002 Passive Recovery Trench Monitoring, Multi-phase Extraction, and Engineering and Institutional Controls, which are discussed in detail in Section 3. The rationale for this selection is detailed below:

- Soil samples collected from the central portion of the AOI 36-1/36-2 LNAPL Area exceed Nonresidential Soil Volatilization to Indoor Air (NSVIA).
- The Human Health Risk Assessment (HHRA) presented in the RCRA Facility Investigation (RFI) Phase 2 Report (BBL, 2006) identified the potential exposure of routine workers to soil and LNAPL via vapor intrusion at AOI 36-1 as a risk under future use scenarios that do not require the application of OSHA regulations.
- The nonresidential infinite source volatile soil inhalation (NISVI) ambient air concern is due to the presence of benzene, ethylbenzene, and/or toluene in soil in the central portion of the AOI 36-1/36-2 LNAPL Area.
- In addition, the biodegradation of LNAPL may generate methane which could result in potential indoor air concerns for future structures.

- The HHRA also identified LNAPL as a direct contact concern for construction workers and maintenance workers at AOI 36-1 (shown on **Figure G3-1**).
- The HHRA did not identify any concerns at AOI 36-2.
- There is also an exceedance of direct contact criteria for arsenic in a soil sample collected from 14 to 16 ft bgs in the northwestern portion of the AOI 36-1/36-2 LNAPL Area.
- Based on the current understanding of risk conditions, the direct contact risk and potential volatilization to indoor air risk for future structures can be effectively mitigated through engineering and institutional controls.
- The LNAPL in the central portion of the LNAPL Area includes a weathered gasoline component with high volatility constituents amenable to an MPE remedy.
- The Outfall 001 and 002 storm sewers have been bulkheaded in this portion of the Site, so the GSI pathway is not applicable.

3. AOI 36-1/36-2 Remedies

This section summarizes the completed and proposed remedies to address the impacts at AOI 36-1/36-2.

3.1 Completed Interim Measures

3.1.1 LNAPL Recovery

From 2005 to 2010 a groundwater and LNAPL recovery system was operated as an IM along the east side of former Factory 36 (**Figure G3-1**). The purpose of this IM was to control potential offsite migration of LNAPL and Site-related constituents and to collect free-phase LNAPL. This system consisted of three 12-inch diameter wells and pumps for both product recovery and groundwater drawdown. The system was discontinued in 2010 due to the minimal amount of LNAPL being collected (approximately 314 gallons of LNAPL were collected in the five years of operation).

An LNAPL bailing program was also completed from 2001 to 2005 which removed approximately 150 gallons of product.

The partial removal of product has been completed in this area and is considered a component of the remedy.

3.1.2 *Outfall 001 and 002 Storm Sewer Bulkheads*

Bulkheads were installed at the Outfall 002 in Spring 2013 in order to eliminate the LNAPL infiltration from AOI 36-1/36-2 and AOI 36-5. Additional bulkheading was completed in May 2014 in the adjacent Outfall 001 drainage area to eliminate the GSI pathway in the AOI 36-1/36-2 LNAPL Area. The locations of the

bulkheads are presented on **Figure 5 of the main report**.

3.2 Additional Remedy Recommendations

The remedies recommended to address the compositional and mobility concerns associated with AOI 36-1/36-2 LNAPL Area are 002 Passive Recovery Trench Monitoring, Multi-phase Extraction, and Engineering and Institutional Controls. The combination of remedies will effectively mitigate the risks at the AOI 36-1/36-2 LNAPL Area. These combined remedies will reduce the LNAPL source mass in the short term and reduce exposure risks associated with the vapor and be protective of future workers in the long term.

3.2.1 002 Passive Recovery Trench Monitoring

Following completion of bulkheading activities at Outfall 002 the bulkheaded storm sewer is being monitored for potential LNAPL accumulation and removal.

3.2.2 Multi-phase Extraction

A multi-phase extraction (MPE) system is the preferred method to address volatile soil inhalation (ambient air) impacts present in the central portion of the AOI 36-1/36-2 LNAPL Area. An MPE system was selected due to the high volatility and low viscosity of the LNAPL and the somewhat sandy soils in this portion of the LNAPL Area.

MPE involves the removal of liquid phase and soil vapor phase by the application of a vacuum. Liquid phase product is stored then disposed of; groundwater is treated then disposed; and soil vapor is treated then discharged via a permit to the environment. The oxygen supplied to the subsurface also increases aerobic biodegradation. The MPE system currently in use at AOI 09-B will be moved to AOI 36-1 and retrofitted to address this area.

A pilot test will be completed in order to develop field information used to size the system, develop operating parameters, and establish the endpoint for the system. The results will also be used to confirm that MPE is feasible based on the ability of the system to depress the groundwater table to expose the smear zone and recover petroleum hydrocarbon in the vapor phase.

Also, as some of the Site data is 10 or more years old, additional field investigations will be completed prior to or during pilot testing to confirm current Site conditions and to acquire any additional data need for the system design.

3.2.3 Maintaining Surface Cover

The remedy recommended to address the direct contact concerns identified at AOI 36-1 in the HHRA, is to maintain the existing Factory 36 slab as surface cover over the impacted area. Recent investigations (completed subsequent to the HHRA) identified LNAPL beyond the factory slab at AOI 36-1 (in the northwestern portion of the AOI 36-1/36-2 LNAPL Area). The surface cover west of the Factory 36 slab is consists of asphalt. The area requiring surface cover is presented on **Figure G3-1**. The surface cover will be inspected and maintained to provide protection from future exposure. Please note that as the HHRA did not identify any risks at AOI 36-2, the portion of the AOI 36-1/36-2 LNAPL Area that extends beyond the Factory 36 slab to the southeast does not require surface cover.

3.2.4 Institutional Controls

The following AOI-specific institutional controls, in addition to the Site-wide controls noted in the Report, will be necessary to limit potential for future exposure:

- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads, as shown on **Figure 5 in the main report**.

- Prohibit any excavation or other intrusive activity that could affect the integrity of the surface cover that is present (as shown on **Figure G3-1**) to prevent direct contact with contaminated material, except with using appropriate health and safety measures, during short-term construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the surface cover, that could affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original barrier within a reasonable timeframe. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the Natural Resources and Environmental Protection Act.

- Require that any intrusive activities (i.e., excavation, repair of foundation or subsurface utilities, short-term construction and landscaping projects) into the subsurface beneath the cap (As shown on **Figure G3-1**) must be consistent with MIOSHA requirements, including the use of a Health and Safety Plan and a trained professional to evaluate the Site data prior to initiating activities. All relevant Site data must be made available for the preparation of the Health and Safety Plan. Data may be made available as part of the Due Care Plan, RFI, or other document(s).



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- APPROXIMATE AOI BOUNDARY
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- PROPOSED AREA REQUIRING SURFACE COVER
- GENERAL GROUNDWATER FLOW DIRECTION

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200
- × HAND AUGER REFUSAL (TOP 5')

NOTE:

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2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 80' 160'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 36-1/36-2 PROPOSED E□TENT OF AREA RE□UIRING SURFACE COVER

ARCADIS

FIGURE
G3-1

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\0064410\2014\0020\IB64410_AOI 36-1-2.dwg LAYOUT: G3-1 SAVED: 9/4/2014 2:10 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 9/4/2014 2:12 PM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME: ----

Appendix H

AOI 83/84-1 Cutting Oil Area
Remedy Recommendation Memo

ARCADIS of Michigan, LLC
28550 Cabot Drive
Suite 500
Novi
Michigan 48377
Tel 248 994 2240
Fax 248 994 2241

MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER
Chris Peters, ARCADIS
Steve Gaito, ARCADIS

From:
Micki M. Maki
Victoria Stacey

Date:
August 29, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
Priority #9 - AOI 83/84-1 Cutting Oil Area
Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

As part of the light non-aqueous phase liquid (LNAPL) remedy evaluation process the Site's 17 LNAPL areas were prioritized based on risk. The area of interest (AOI) 83/84-4 1 Cutting Oil LNAPL Area (AOI 83/84-1 LNAPL Area) is ranked as Priority #9 with a total potential risk score of 6 (**Table 5 of the main report**). A conceptual site model cross-section is attached (**Figure H-1**) that provides an overview of the AOI 83/84-1 LNAPL Area impacts.

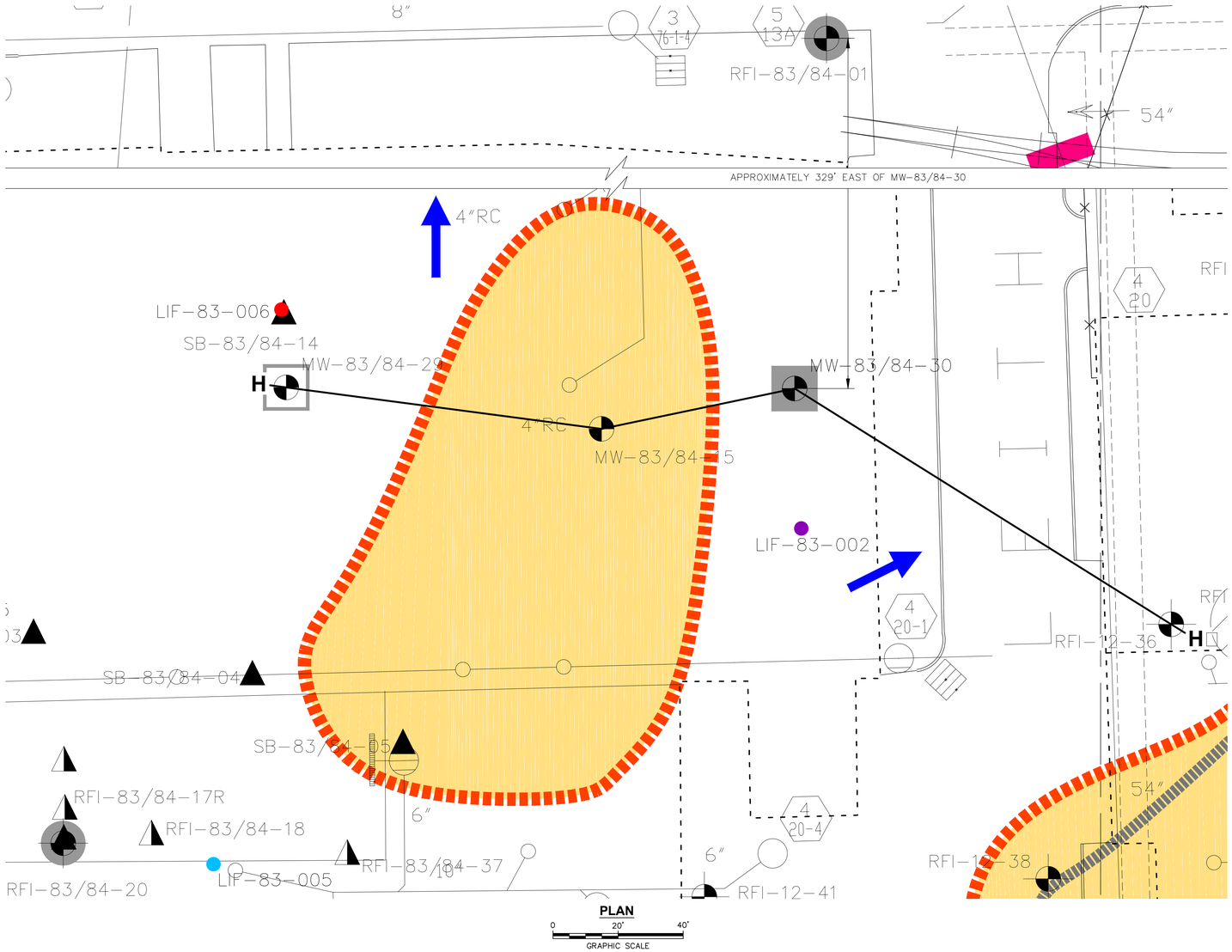
The compositional and saturation concerns identified for the AOI 83/84-1 LNAPL Area were evaluated in the LNAPL decision tree (**Attachment 2**) and are summarized below:

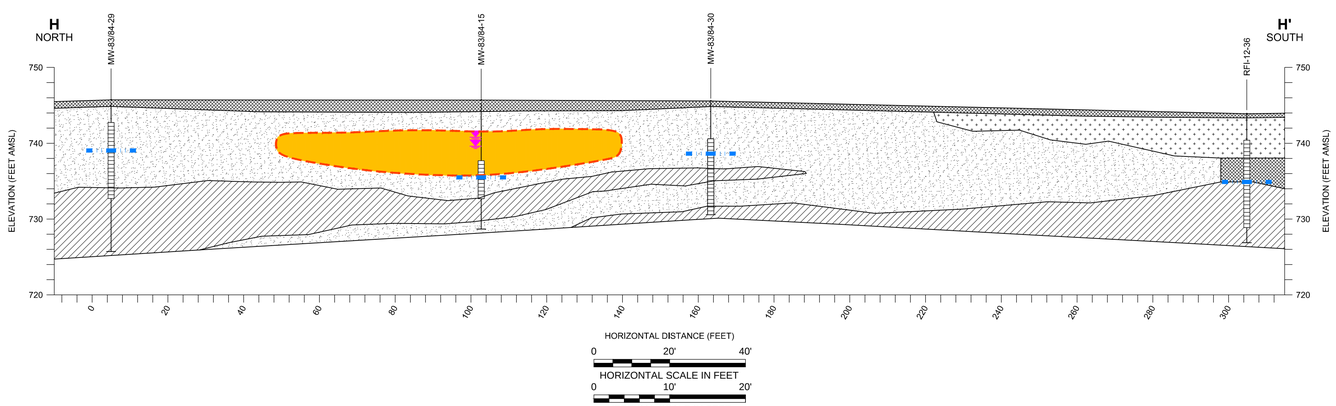
- Theoretically, there is a potential unacceptable vapor phase exposure associated with methane for future redevelopment scenarios due to the biodegradation of LNAPL generating methane; however, this will be addressed by the proposed institutional controls.
- Although there are groundwater/surface water interface (GSI) exceedances of select semi-volatile organic compounds (SVOCs) and/or metals in soil and groundwater samples, these constituents are not detected in the NPDES Plus Monitoring Program (NPMP) samples collected from the Outfall 004 storm sewer. Therefore, the GSI pathway is not complete for these exceedances.

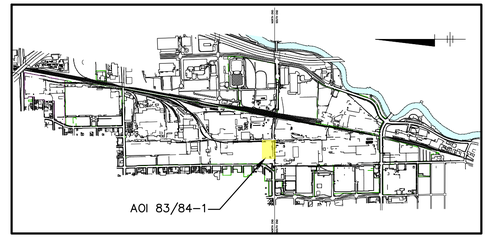
However, there is a GSI concern associated with the LNAPL infiltrating the Outfall 004 storm sewer that needs to be addressed.

- No feasible options exist to mitigate unacceptable risk through compositional change.
- The LNAPL is not migrating; however, it is mobile and is likely infiltrating the Outfall 004 storm sewer.
- The LNAPL may not be readily recoverable.

Based on the current understanding of conceptual site model, risks associated with volatilization concerns can be effectively mitigated through institutional controls. Additionally, the Outfall 004 infiltration pathway elimination is recommended to address the LNAPL infiltration concern.







SITE MAP

0 2000' 4000'
SCALE IN FEET

AOI 83/84-1 CUTTING OIL AREA

□EY LNAPL COMPOSITION AND SATURATION CONCERNS

1) POTENTIAL GSI INFILTRATION TO OUTFALL 004 STORM SEWER
2) POTENTIAL VOLATILIZATION TO INDOOR AIR CONCERN FOR FUTURE STRUCTURES

COMPLETED INTERIM MEASURES AND RECOMMENDED REMEDIES

R-1) OUTFALL 004 INFILTRATION PATHWAY ELIMINATION

R-2) 004 PASSIVE RECOVERY TRENCH MONITORING

R-3) INSTITUTIONAL CONTROLS

NOTES:

1. BASE MAP INFORMATION FROM SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.
2. GEOLOGY NOT INTERPRETED FROM LASER INDUCED FLUORESCENCE (LIF) BORINGS.
3. BASED ON INFORMATION AVAILABLE AS OF 03.19.2014.
4. FILL MATERIAL CONSIST OF CLAY.

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AOI 83/84-1 CONCEPTUAL SITE MODEL CROSS SECTION H-H□

ARCADIS

FIGURE
H-1

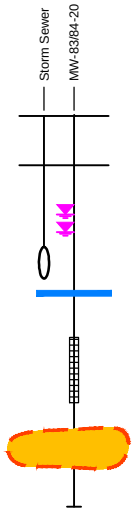
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IMAGES: PROJECTNAME: ---- PLOTSTYLETABLE: BBL-FULL.CTB PLOTTED: 8/25/2014 2:04 AM BY: SANCHEZ, ADRIAN

LEGEND

- PROPERTY BOUNDARY
- HISTORICAL LNAPL EXTENT
- CURRENT LNAPL EXTENT
- STORM SEWER
- ABANDONED STORM SEWER LATERAL
- APPROXIMATE LOCATION OF RECOVERY TRENCH
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- A1 — A1 LINE OF SECTION
- RFI MONITORING WELL LOCATION
- MONITORING WELL LOCATION
- RECOVERY WELL (NAPL) LOCATION
- PIEZOMETER LOCATION
- SOIL BORING LOCATION
- DECOMMISSIONED WELL LOCATION
- EVIDENCE OF PRODUCT OBSERVED IN SOIL

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

- <5
- 5–10
- 10–100
- 100–200
- >200
- HAND AUGER REFUSAL (TOP 5')
- GROUNDWATER SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- GROUNDWATER SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- SOIL SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES DO NOT EXCEED APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES EXCEED ONE OR MORE APPLICABLE CRITERIA



- WELL/BORING ID
- EXISTING GRADE
- LITHOLOGICAL CONTACT (DASHED WHERE INFERRED)
- NAPL LEVEL (HISTORIC HIGH AND LOW LEVELS)
- WATER TABLE
- WELL SCREEN
- APPROXIMATE EXTENT OF LNAPL
- WELL/BORING BOTTOM
- ASPHALT
- CONCRETE
- CLAY
- FILL
- GRAVEL
- INTERBEDDED SAND AND CLAY
- INTERBEDDED SANDS AND SILTS
- INTERBEDDED SILT AND CLAY
- SAND
- SILT
- SILTY SAND

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FLINT, MICHIGAN

CROSS SECTION LEGEND

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FIGURE
H-2

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB0064410\2014\00206\Xsections\64410V01.DWG LAYOUT: 1A SAVED: 7/11/2014 11:58 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: BBL-FULL.CTB PLOTTED: 7/11/2014 1:56 PM BY: SANCHEZ, ADRIAN
XREFS: IMAGES: PROJECTNAME: ---
Xr64410X3Bsp
Xr64410XDrainage
Xr64410X01
Xr64410XLIFsp2
Xr64410X01
Xr64410XAOI
Xr64410XLNAPL

Attachment 1

LNAPL Conceptual Site Model

Priority #9 - AOI 83/84-1 Cutting Oil LNAPL Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 1 - Conceptual Site Model

This attachment presents a conceptual site model for the area of interest (AOI) 83/84-1 Cutting Oil light non-aqueous phase liquid (LNAPL) Area (AOI 83/84-1 LNAPL Area). AOI 83/84-1 LNAPL Area is located at the Northend of the Buick City Site (Site) located in Flint, Michigan (**Figure H1-1**).

1. Background

The AOI 83/84-1 LNAPL Area is located at the former Factory 83/84 Area in the southwestern portion of the Northend of the Site (**Figure H1-2**). Historically, operations at former Factory 83/84 primarily consisted of manufacturing axle assemblies until 1981. After 1981 manufacturing consisted of "white metals" components such as water pumps, pistons, and manifolds. Historic operations at AOI 83/84-1 included both "wet" and "dry" operations involving various metal chip conveyors trenches, process fluid recirculation and/or recovery sumps and pits, product supply sumps and storage areas, and metal chip processing. The AOI 83/84-1 LNAPL Area is presumably due to historical releases associated with operations in this area.

The AOI 83/84-1 LNAPL Area was identified during Site investigation activities completed in 2013. Investigation data previously presented in Site reports are not re-presented in this memo. However, pertinent AOI 83/84-1 investigation data that has not previously been presented in a Site report is attached.

2. AOI 83/84-1 Site Setting and Data Summary

This section provides a summary of the geology, hydrogeology, analytical data, and LNAPL characteristics and extent of impacts for the AOI 83/84-1 LNAPL Area.

Figure H1-2 presents the locations of the existing and abandoned monitoring wells and soil borings in the AOI 83/84-1 area.

2.1. AOI 83/84-1 Geology and Hydrogeology

- *Geology:* The soils at the AOI 83/84-1 LNAPL Area consist of primarily fine to medium sand interbedded with silt and clay to a depth of approximately 17 feet below ground surface (bgs).

- *Groundwater/LNAPL Levels:* Six monitoring wells at the AOI 83/84-1 LNAPL Area are gauged to monitor the extent of the LNAPL. Depth to groundwater in this area is approximately 7 to 8 feet bgs. The AOI 83/84-1 LNAPL Area includes one monitoring well (MW-83/84-15), where LNAPL was gauged at a maximum thickness of 4.46 feet in September 2013. During two gauging events, the thickness of LNAPL at MW-83/84-15 has ranged from 2.20 feet to 4.46 feet.

  Based on historic fluid level gauging data, groundwater flow in this portion of the Site is generally to the east-southeast. The groundwater level data are presented in **Appendix X.**

2.2. Groundwater and Soil Analytical Data

Analytical data were compared to applicable Michigan Part 201 nonresidential criteria.

2.2.1. Groundwater Analytical Data

Two groundwater samples were collected in the vicinity of the AOI 83/84-1 LNAPL Area. RFI-83/84-20 is located approximately 175 feet upgradient of the AOI 83/84-1 LNAPL Area and RFI-83/84-01 is located approximately 260 feet downgradient. Groundwater sample concentrations for arsenic (14-23/10 ug/L), cyanide (50-51/5.2 ug/L), selenium (5.6/5 ug/L) and silver (0.47-1.4/0.2 ug/L) exceeded groundwater surface water interface (GSI) criteria.

2.2.2. Soil Volatile Organic Compound (VOC), Semi-Volatile Organic Compound (SVOC), and Metals Analytical Data

Soil samples collected from AOI 83/84-1 detected phenanthrene (2.6-3.8/2.1 mg/kg) and dibenzofuran (1.8/1.7 mg/kg) concentrations exceeding groundwater surface water interface protection (GSIP) criteria at MW-83/84-30.

2.2.3 GSI Evaluation

As discussed in further detail in Appendix BB, GSI exceedances in the Site storm sewers are being evaluated by the ongoing NPDES Plus Monitoring Program (NPMP). The Outfall 004 storm sewer services AOI 83/84-1. The monthly NPMP samples collected from the Outfall 004 storm sewer as part of the NPMP have not exhibited concentrations of SVOCs, arsenic, cyanide, selenium or silver above GSI criteria at the downgradient monitoring point.

2.2.4 Soil PCB Analytical Data

Polychlorinated biphenyls (PCBs) were not detected in the soil samples collected from the AOI 83/84-1 LNAPL Area.

2.2.5 Vapor Intrusion Evaluation

Due to the presence of shallow groundwater and LNAPL (approximately 7 to 8 feet below ground surface) at AOI 83/84-1, groundwater data were also compared to the applicable Non-Residential Screening Values For the Vapor Intrusion Pathway presented in the *Michigan Department of Environmental Quality (MDEQ) Guidance Document for the Vapor Intrusion Pathway* (further discussed in Section 3.4 of the Report). Groundwater concentrations do not exceed applicable screening levels.

As there are no structures at the Site the MDEQ Part 201 criteria are appropriate for comparison of soil data. Soil concentrations did not exceed applicable screening levels.

2.3. LNAPL Characteristics

- *LNAPL Analytical Data:* LNAPL present at AOI 83/84-1 consists primarily of cutting oil. Additional analysis indicated that:
  - The LNAPL has a viscosity of 108.24 centipoise (cp) and a specific gravity of 0.903.
  - Polychlorinated biphenyls (PCBs) were not detected in the LNAPL.

  For reference, the viscosity (at 100 degrees Fahrenheit) of honey is 73.6 cp (Ingersoll-Rand, 1981). LNAPL analytical data are presented in **Appendix X**.

- *LIF Data:* Twelve LIF borings were completed in the AOI 83/84-1 area. The vertical range of LIF impact (greater than 5%RE) at AOI 83/84-1 is typically 6 to 17 feet bgs. **Figure H1-2** presents the results of the LIF investigation and the extent of impacts associated with the AOI 83/84-1 LNAPL area.

- *Transmissivity:* An LNAPL transmissivity study was unable to be completed at the AOI 83/84-1 area because LNAPL is present above the top of the well screen.

- *Natural Source Zone Depletion (NSZD):* An NSZD study was not conducted at the AOI 83/84-1 area due to the presence of the concrete slab from former Factory 83/84. The testing completed at the Southend of the Site indicated that NSZD is occurring; however, the currently

available testing technologies cannot reliably quantify the depletion beneath a concrete slab.

2.4. Extent of LNAPL

The footprint of the LNAPL area containing approximately 0.1 ft or greater of LNAPL in a monitoring well (as discussed in Section 2.1.3 of the main report) is estimated to be approximately 15,800 square feet. Based on the LIF data, approximate depth impacts are approximately 6 to 17 ft bgs.

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Boring Logs

Date Start/Finish: 4/16/13-4/16/13
Drilling Company: Stearns Drilling
Driller's Name: Brian Marshall
Drilling Method: Sonic
Sampling Method: Hand Auger/ 4" Core Barrel
Rig Type: Mini Sonic

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 17.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **SB-83/84-13**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0 / 0				NA			(0.0-2.0) CONCRETE.	
	1	0.0-5.0	5.0	0.0 0.0 0.8			(2.0-11.0') SAND, fine, subrounded; little clay, poorly sorted; moist; brown (10YR 4/3). Note: Slight odor. Note: Wet at 4.0' bgs.	
5 / -5	2	5.0-10.0	5.0	1.6 1.7 1.9 0.9 1.4				
10 / -10	3	10.0-17.0	7.0	0.7 0.5 0.5 0.6 0.9 1.9 0.0			(11.0-17.0') CLAY, trace silt, high plasticity, slow dilatancy; some granules to small pebbles, subrounded; moist; soft; gray (10YR 5/1). Note: Till.	
15 / -15								
20 / -20							End of boring at 17.0' bgs.	

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Remarks: Hand Auger to 5.0' bgs. Analytical samples collected for Lead delineation.
Soil sample SB-83/84-13 (2-3) collected at 1115.
Soil sample SB-83/84-13 (3-5) collected at 1120.
Soil sample SB-83/84-13 (6-8) collected at 1130.

Date Start/Finish: 4/16/13-4/16/13
Drilling Company: Stearns Drilling
Driller's Name: Brian Marshall
Drilling Method: Sonic
Sampling Method: Hand Auger/ 4" Core Barrel
Rig Type: Mini Sonic

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 25.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **SB-83/84-14**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0 / 0				NA			(0.0-1.5') CONCRETE.	
	1	0.0-5.0	5.0	0.0 0.0 0.0 0.0			(1.5-7.5') SAND, fine to medium, subrounded; well sorted; moist; brown (10YR 4/3). Note: Slight odor.	
5 / -5				0.0				
	2	5.0-10.0	5.0	0.0 0.0 0.0 0.0			Note: Wet at 7.0' bgs. (7.5-8.0') SILT, non plastic to low plasticity, slow dilatancy; and SAND, very fine, subrounded; well sorted; wet; medium stiff; dark grayish brown (10YR 4/2). Note: Slight odor. (8.0-11.0') SAND, fine to medium, subrounded to subangular; trace granules, subrounded; poorly sorted; wet; very dark gray (10YR 3/1). Note: Slight odor.	
10 / -10				0.0				
	3	10.0-15.0	5.0	0.0 0.0 0.0 0.0			(11.0-17.0') CLAY, high plasticity, slow dilatancy; moist; soft; gray (10YR 5/1).	
15 / -15				0.0				
				0.0				

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Remarks: Hand Auger to 5.0' bgs.
Soil sample SB-83/84-14 (1.5-3.0) collected at 1315.
Soil sample SB-83/84-14 (3.0-5.0) collected at 1320.
Soil sample SB-83/84-14 (6.0-8.0) collected at 1330.

Date Start/Finish: 4/16/13-4/16/13
Drilling Company: Stearns Drilling
Driller's Name: Brian Marshall
Drilling Method: Sonic
Sampling Method: Hand Auger/ 4" Core Barrel
Rig Type: Mini Sonic

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 25.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **SB-83/84-14**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
20 -20	4	15.0-25.0	10.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0			(17.0-22.0') CLAY, little silt, high plasticity, no dilatancy; trace very fine sand; some granules to small pebbles; subrounded; moist; stiff; gray (10YR 5/1). Note: Till. (22.0-22.7') SAND, fine to coarse, subrounded to subangular; and PEBBLES, small to large, subrounded; little granules, subangular; little clay; poorly sorted; wet; gray (10YR 5/1). (22.7-25.0') CLAY, little silt, high plasticity, no dilatancy; some granules to small pebbles, subrounded; trace very fine sand; moist; stiff; gray (10YR 5/1).	
25 -25							End of boring at 25.0' bgs.	
30 -30								
35 -35								

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Remarks: Hand Auger to 5.0' bgs.
Soil sample SB-83/84-14 (1.5-3.0) collected at 1315.
Soil sample SB-83/84-14 (3.0-5.0) collected at 1320.
Soil sample SB-83/84-14 (6.0-8.0) collected at 1330.

Date Start/Finish: 4/16/13-4/16/13
Drilling Company: Stearns Drilling
Driller's Name: Brian Marshall
Drilling Method: Sonic
Sampling Method: Hand Auger/ 4" Core Barrel
Rig Type: Mini Sonic

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 17.0' bgs.
Surface Elevation: NA

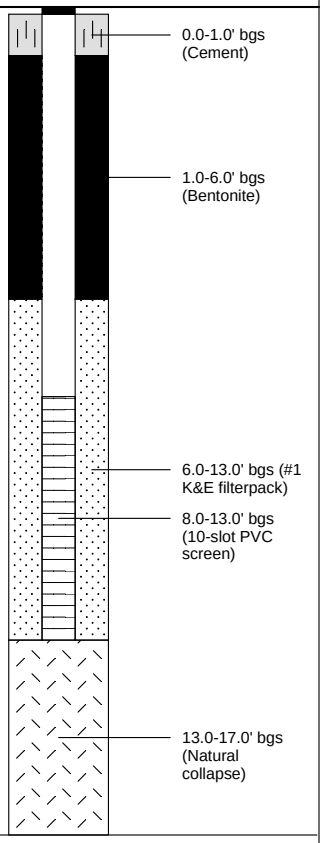
Descriptions By: T. Stevens

Well/Boring ID: **MW-83/84-15**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description
0 / 0				NA			(0.0-1.5) CONCRETE.
	1	0.0-5.0	5.0	0.0			(1.5-6.0') SAND, fine, subrounded; well sorted; moist; brown (10YR 4/3). Note: Sllight odor.
				0.0			
				0.0			
5 / -5				0.0			Note: Wet at 5.0' bgs.
	2	5.0-10.0	5.0	0.0			(6.0-8.0') SILT, non plastic; and SAND, very fine, subrounded; poorly sorted; wet; dark gray (10YR 4/1).
				0.0			(8.0-12.0') SAND, very fine to fine, rounded; well sorted; wet; dark gray (10YR 4/1). Note: Slight odor.
				0.0			
10 / -10				0.0			
	3	10.0-15.0	7.0	0.0			(12.0-13.0') SAND, medium to very coarse, subrounded to subangular; and GRANULES, subangular; little small pebbles, subrounded; trace silt; poorly sorted; wet; dark grayish brown (10YR 4/2). Note: Slight odor.
				0.0			(13.0-16.0') CLAY, little silt, high plasticity, slow dilatancy; little granules, subangular; trace very fine sand; poorly sorted; moist; dark gray (10YR 4/1).
15 / -15				0.0			
				0.0			
				0.0			(16.0-17.0') SAND, fine to medium, subrounded; little granules; subangular; poorly sorted; wet; dark grayish brown (10YR 4/1).
20 / -20							End of boring at 17.0' bgs.



Well/Boring Construction

Remarks: Hand Auger to 5.0' bgs.
Soil sample MW-83/84-15 (1.5-3.0) collected at 1435.
Soil sample MW-83/84-15 (3.0-5.0) collected at 1440.
Soil sample MW-83/84-15 (6.0-8.0) collected at 1520.

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Date Start: 9/10/13
Date Finish: 9/10/13
Drilling Company: Cascade
Driller's Name: Dan O'Mara
Drilling Method: Sonic
Sampling Method: 4" Core Barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.5
Water Level Finish (ft. btoc.): NA

Northing: 563171.27
Easting: 13305266.80
Casing Elevation: 745.41

Borehole Depth (ft. bgs.): 15
Surface Elevation: 745.58

Descriptions By: Drew Shaw

Well/Boring ID: **MW-83/84-30**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: 95 degrees F, Sunny

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 745				NA			(0.0-1.0') CONCRETE		Protective Casing
				1.3			(1.0-9.0') SAND, fine to medium, subround; trace granules; well sorted; dry; brown (10YR 5/3).		(1.0-3.0') Bentonite
	1	0.0-5.0'	5.0'	1.1					(0.2-5.0') 2" Sch 40 PVC Well Casing
				1.1					
5 / 740				2.2					
				0.5					
				0.5					
				0.5					
				0.5					
10 / 735	2	5.0-15.0'	8.0'	0.5			(9.0-10.5') CLAY, high plasticity, no dilatancy; trace very fine sand; stiff; dry; light yellowish brown (10YR 6/4).		(2.0-15.0') Filter Pack K&E #1
				2.5			(10.5-14.2') SAND, fine to very coarse, subround; little granules, subround; poorly sorted; wet; light yellowish brown (2.5Y 6/3). Note: Black staining throughout, strong odor, visible product.		(5.0-15.0') 2" Sch 40 PVC 0.010 Slot Well Screen
				4.5					
				6.3					
				4.6					
15 / 730				0.0			(14.2-15.0') CLAY, high plasticity, no dilatancy; dry; very stiff; light olive brown (2.5Y 5/3).		
							End of boring at 15.0' bgs.		
20 / 725									

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Remarks: Hand augered to 5.0' bgs.
MW-83/84-30(1-2) collected at 1230.
MW-83/84-30(9-10.5) collected at 1235.
MW-83/84-30(10.5-12) collected at 1240.

DRAFT

Date Start: 9/10/13
Date Finish: 9/10/13
Drilling Company: Cascade
Driller's Name: Dan O'Mara
Drilling Method: Sonic
Sampling Method: 4" Core Barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.8'
Water Level Finish (ft. btoc.): NA

Northing: 563173.95
Easting: 13305449.68
Casing Elevation: 745.47

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: 745.64

Descriptions By: Drew Shaw

Well/Boring ID: **MW-83/84-31**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: 95 degrees F, Sunny

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 745				NA			(0.0-1.5') CONCRETE.		Protective Casing
				NA			(1.5-3.0') SAND, fine to medium, subround; well sorted; dry; yellowish brown (10YR 5/6).		(1.0-3.0') Bentonite
	1	0.0-5.0'		0.5					(0.2-5.0') 2" Sch 40 PVC Well Casing
				0.5			(3.0-8.5') SAND, very fine to fine, subround; trace small pebbles, subround; well sorted; dry; brown (10YR 4/3).		
5 / 740				0.5					
				0.2					
				0.2					
				0.2					
				0.1			(8.5-11.5') SILT and SAND, very fine, nonplastic, slow dilatancy; medium stiff; moist; brown (10YR 5/3).		(3.0-15.0') Filter Pack K&E #1
10 / 735	2	5.0-15.0'		0.1					(5.0-15.0') 2" Sch 40 PVC 0.010 Slot Well Screen
				0.1			Note: Wet at 10.8' bgs.		
				0.1			(11.5-14.2') SAND, very fine to fine; trace medium sand, round; well sored; wet; grayish brown (10YR 5/2).		
				0.1					
				0.1					
15				0.1			(14.2-15.0') CLAY, high plasticity, no dilatancy; dry; very stiff; light olive brown (2.5Y 3/3).		
730							End of boring at 15.0' bgs.		
20 / 725									

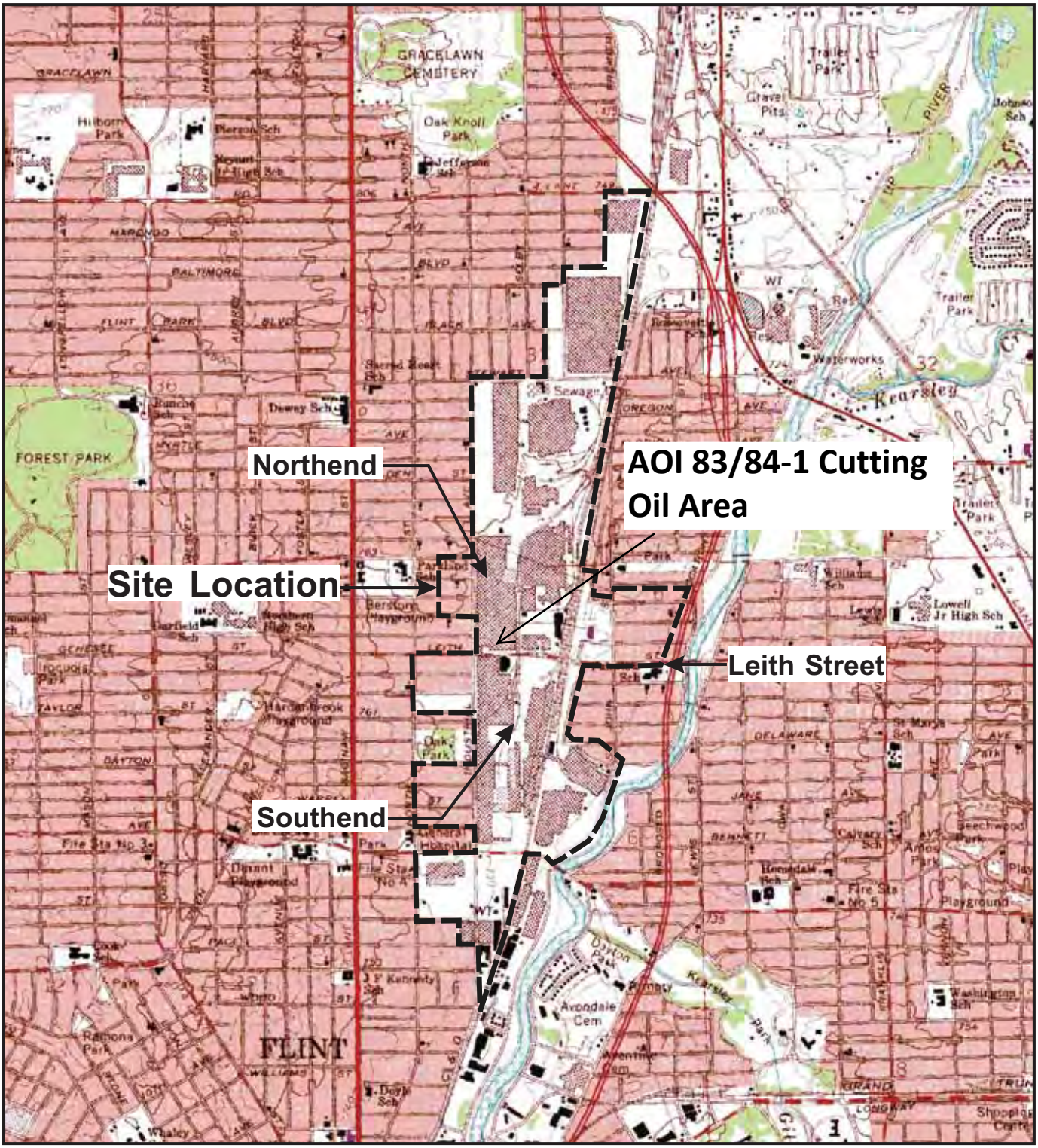
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Remarks: Hand augered to 5.0' bgs. No Staining or odor observed in the boring.
MW-83/84-31(2-4) collected at 1420.
MW-83/84-321(8-10) collected at 1425.

DRAFT

ARCADIS

Figures



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quad., Flint North, Mich. (1969, Photorevised 1975).

2000' 0 2000'

Approximate Scale: 1" = 2000'



Area Location

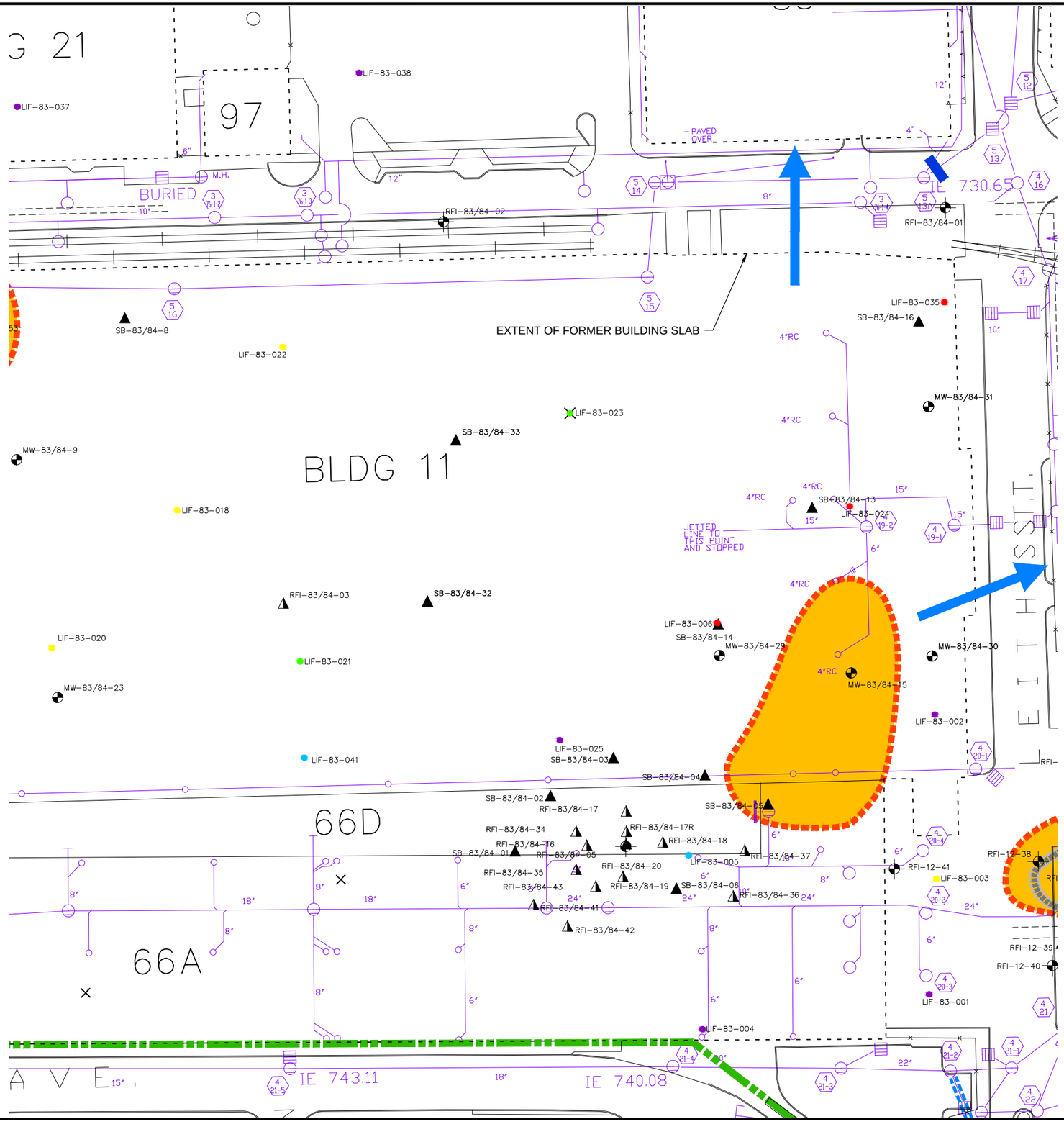
RACER TRUST
BUICK CITY, FLINT, MICHIGAN

SITE LOCATION MAP

ARCADIS

FIGURE
H1-1

03/12/2012 SYRACUSE, NY-ENV/CAD-141-DJHOWES
B0064410/2012/01202/CDR/64410N01.CDR



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- DEMOLISHED BUILDING
- STORM SEWER LINE
- GENERAL GROUNDWATER FLOW DIRECTION

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200
- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.. AREAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 40' 80'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 83/84-1 INVESTIGATION AREA AND LNAPL E□TENTS

ARCADIS

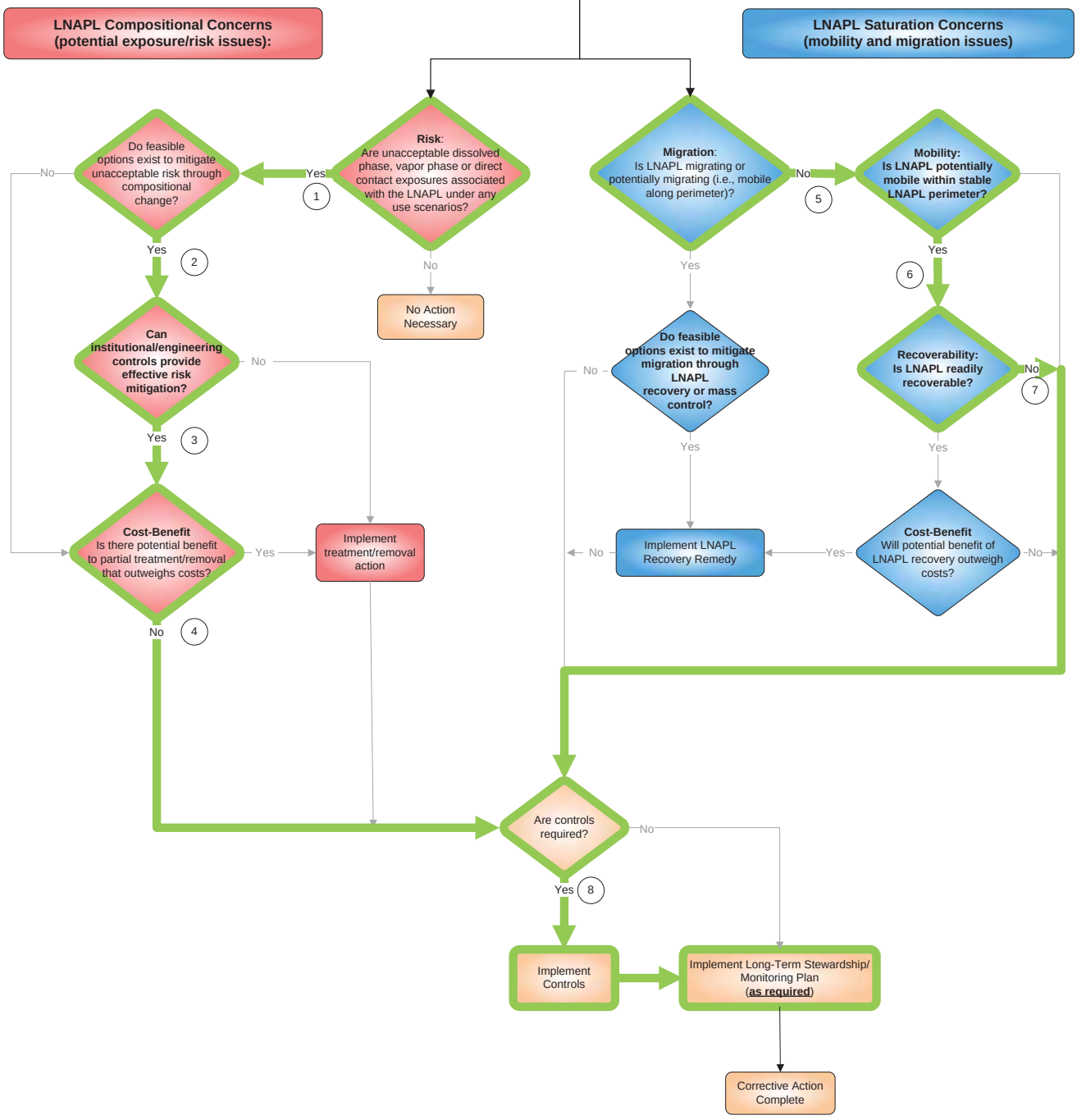
FIGURE
H1-2

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
C:\Users\alsanchez\Desktop\ACTIB0064410\2014\00206\B64410_AOI 83.84-1.dwg LAYOUT: H1-2 SAVED: 8/25/2014 2:00 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 8/25/2014 2:06 AM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME: ----

Attachment 2

LNAPL Remedial Decision Tree

Attachment 2 LNAPL Remedial Decision Tree Priority #9 – AOI 83/84-1 Cutting Oil Area



NOTES

(#) NOTES: See Page H2-2

Please see Appendix W for the LNAPL Remedial Decision Tree Template that lists additional sources of pertinent information used in the evaluation of the decision points (i.e. tables).

Attachment 2 Notes

Priority #9 – AOI 83/84-1 Cutting Oil LNAPL Area

Background: The area of interest (AOI) 83/84-1 cutting oil light non-aqueous phase liquid (LNAPL) Area (AOI 83/84-1 LNAPL Area) is located in the former Factory 83/84 area in the southwestern portion of the Northend of the Site. Historic operations included both "wet" and "dry" operations involving various metal chip conveyors trenches, process fluid recirculation and/or recovery sumps and pits, product supply sumps and storage areas, and metal chip processing. The AOI 83/84-1 LNAPL Area is presumably due to historical releases associated with operations in this area. There are currently no buildings within the AOI 83/84-1 LNAPL Area. The AOI 83/84-1 LNAPL Area is covered by the former Factory 83/84 slab.

Geology and Hydrogeology: The soils at AOI 83/84-1 primarily consist of fine to medium sand interbedded with silt and clay approximately 17 feet bgs. Depth to groundwater in this area varies and has been measured as shallow as 7.10 feet bgs, as deep as 10.54 feet bgs, and is generally between 7 and 8 feet bgs. Based on historic fluid level gauging data, groundwater flow in this portion of the Site is generally to the east-southeast.

LNAPL Characteristics: LIF boring logs in the AOI 83/84-1 LNAPL Area show evidence of LNAPL impacts from as shallow as 5 feet bgs and as deep as 17 feet bgs. The AOI 83/84-1 LNAPL Area consists of one monitoring well (MW-83/84-15) where LNAPL was measured at thicknesses of up to 4.46 feet. The LNAPL has a viscosity of 108.24 centipoise (cp) and a specific gravity of 0.903.

1) *Are unacceptable dissolved phase, vapor phase, or direct contact exposures associated with the LNAPL under any use scenarios?*

   YES – The following potential risk/exposure concerns are associated with the AOI 83/84-1 LNAPL Area:
   - Groundwater Surface Water Interface (GSI): Samples collected from the AOI 83/84-1 LNAPL Area detected select SVOCs and metals at concentrations exceeding GSI or GSI Protection criteria. The Outfall 004 storm sewer is the only potentially complete GSI pathway at AOI 83/84-1. Samples collected from the Outfall 004 storm sewer as part of the monthly NPDES Plus Monitoring Program (NPMP) sampling program did not detect SVOCs or arsenic, cyanide, selenium, or silver above GSI criteria. Therefore, the GSI pathway is not complete for these exceedances. However, there is a GSI concern associated with the LNAPL infiltrating the Outfall 004 storm sewer that needs to be addressed.
   - Potential Volatilization to Indoor Air for Future Structures: Theoretically, there is a potential unacceptable vapor phase exposure risk associated with methane for future redevelopment scenarios; however, this will be addressed by the proposed institutional controls.

2) *Do feasible options exist to mitigate unacceptable risk through compositional change?*

   YES – Targeted in-situ soil mixing/land farming to address the petroleum constituents may be technically feasible. However, other options evaluated were not feasible as discussed below.

   - Enhanced dissolution and recovery via surfactant or hot water flushing it is not a viable option based on the presence of nearby City sewers. The use of surfactant would increase mobility and therefore, likely increase LNAPL infiltration into the storm sewer.
   - AOI 83/84-1 LNAPL constituents have low volatility rendering remedial technologies that rely on vapor-phase partitioning infeasible on a technical basis.
   - In situ thermal remediation may be technically feasible for the area; however, it is not a viable option based on the presence of nearby City sewers.

3) *Can institutional/engineering controls provide effective risk mitigation*

   YES – Based on the current understanding of risk conditions, the potential GSI infiltration and volatilization to indoor air risk can be effectively mitigated through engineering and institutional controls.

4) *Is there a potential benefit to partial treatment/removal that outweighs costs?*

   NO – Based on the current understanding of risk conditions, the potential GSI infiltration and volatilization to indoor air risk can be effectively mitigated through engineering and institutional controls.

5) *Is LNAPL migrating or potentially migrating (i.e. mobile along the perimeter)?*

   NO – Although the AOI 83/84-1 LNAPL is mobile in the vicinity of the Outfall 004 storm sewer, the LNAPL area appears to be stable. This finding is supported by the following lines of evidence:
   - Well Gauging Data: Monitoring wells located downgradient of the AOI 83/84-1 LNAPL Area (see **Figure 2 of the main report**) have remained free of LNAPL since monitoring began approximately 10 years ago.

Attachment 2 Notes

Priority #9 – AOI 83/84-1 Cutting Oil LNAPL Area

- Age of LNAPL Release: The AOI 83/84-1 LNAPL Area was identified in 2013. Operations began in this portion of the Site in the early 1900s and ceased in this portion of the Site ceased in mid 2000s. LNAPL bodies typically stabilize within 2 to 5 years after a release has been stopped (ITRC, 2012).

6) *Is LNAPL mobile within the stable LNAPL perimeter?*

YES – LNAPL from AOI 83/84-1 is likely infiltrating the Outfall 004 storm sewer, by way of a lateral that passes through the area; however, the viscosity of the LNAPL is 108 cp, limiting its mobility. In order to address the risks associated with the LNAPL infiltration into the Outfall 004 storm sewer, the pathway will be eliminated. Bulkheading or rerouting portions of the Outfall 004 storm sewer are being evaluated to eliminate this pathway.

7) Is LNAPL readily recoverable?

NO – LNAPL recovery is not likely practical due to the high viscosity of the LNAPL. Also, LNAPL is present in only in one well in the AOI 83/84-1 LNAPL Area.

8) Are controls required?

YES – The following AOI-specific institutional controls are proposed, in addition to the Site-wide institutional controls, for the AOI 83/84-1 LNAPL Area to limit future exposure:

- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads as noted on **Figure 5 of the main report**.

Attachment 3

Remedy Recommendations

Priority #9 - AOI 83/84-1 Cutting Oil LNAPL Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 3 – Recommended Remedy

This attachment presents the recommended remedies for the area of interest (AOI) 83/84-1 Cutting Oil light non-aqueous phase liquid (LNAPL) Area (AOI 83/84-1 LNAPL Area).

1. Compositional and Saturation Concerns

The LNAPL Decision Tree Analysis presented in **Attachment 2** identified potential volatilization to indoor air and groundwater surface water interface (GSI) infiltration as compositional concerns for AOI 83/84-1 and mobility as a saturation concern. The volatilization to indoor air concern is due to the biodegradation of LNAPL generating methane that could theoretically result in an indoor air concern for future structures. In addition, the LNAPL from the AOI 83/84-1 area is infiltrating the Outfall 004 storm sewer, which is the basis for the GSI and mobility concerns.

2. Remedy Recommendation Rationale

The remedy recommended to address the compositional and saturation concerns associated with the AOI 83/84-1 LNAPL area is engineering and institutional controls, which are discussed in detail in Section 3. The rationale for this selection is detailed below:

- Based on the current understanding of risk conditions, the potential volatilization to indoor air risk for future structures due to the biodegradation of LNAPL generating methane can be effectively mitigated through Site-wide institutional controls.
- Soil and groundwater samples collected from AOI 83/84-1 detected concentrations of select SVOCs, arsenic, cyanide, selenium, and/or silver at concentrations exceeding GSI or GSI protection criteria. The Outfall 004 storm sewer is the only potentially complete GSI pathway at AOI 83/84-1. Samples collected from the Outfall 004 storm sewer as part of the monthly NPDES Plus Monitoring Plan (NPMP) sampling program did not detect SVOCs, arsenic, cyanide, selenium, or silver above GSI criteria. Therefore, the GSI pathway is not complete for these exceedances. However, there is a GSI concern associated with the LNAPL infiltrating the Outfall 004 storm sewer that needs to be addressed.
- The AOI 83/84-1 LNAPL Area is likely infiltrating the Outfall 004 storm sewer.

- Although the AOI 83/84-1 LNAPL Area was only recently identified, monitoring wells located downgradient of the area have been gauged as part of Site investigation activities for more than 10 years and no LNAPL has been observed, indicating that the LNAPL in this AOI is not migrating.

3. AOI 83/84-1 Remedies

The remedies recommended to address the compositional and mobility concerns associated with AOI 83/84-1 LNAPL Area are to eliminate the Outfall 004 infiltration pathway and establish institutional controls. These combined remedies will eliminate the infiltration pathway in the short term and prevent future worker exposure to LNAPL impacts in the long term.

3.1 Outfall 004 Pathway Elimination

In order to address the risks associated with the LNAPL infiltration into the Outfall 004 storm sewer, the pathway will be eliminated. The preferred option to eliminate this pathway is to re-route the flow from the Outfall 004 storm sewer at the western property boundary into the nearby Outfall 013 storm sewer. The Outfall 004 storm sewer will then be bulkheaded and collared at the downgradient property boundary to eliminate this pathway as shown on **Figure H3-1**. A feasibility study for this option is currently underway and the final cost for this option is being evaluated.

3.2 004 Passive Recovery Trench Monitoring

After completion of re-routing activities the Outfall 004 bulkheads will have created two closed sections of pipe which will be used as passive recovery trenches. These trenches will be monitored for LNAPL accumulation and LNAPL will be removed, as necessary.

3.3 Institutional Controls

The following AOI-specific institutional controls, in addition to the Site-wide controls noted in the Report, will be necessary to limit potential for future exposure:

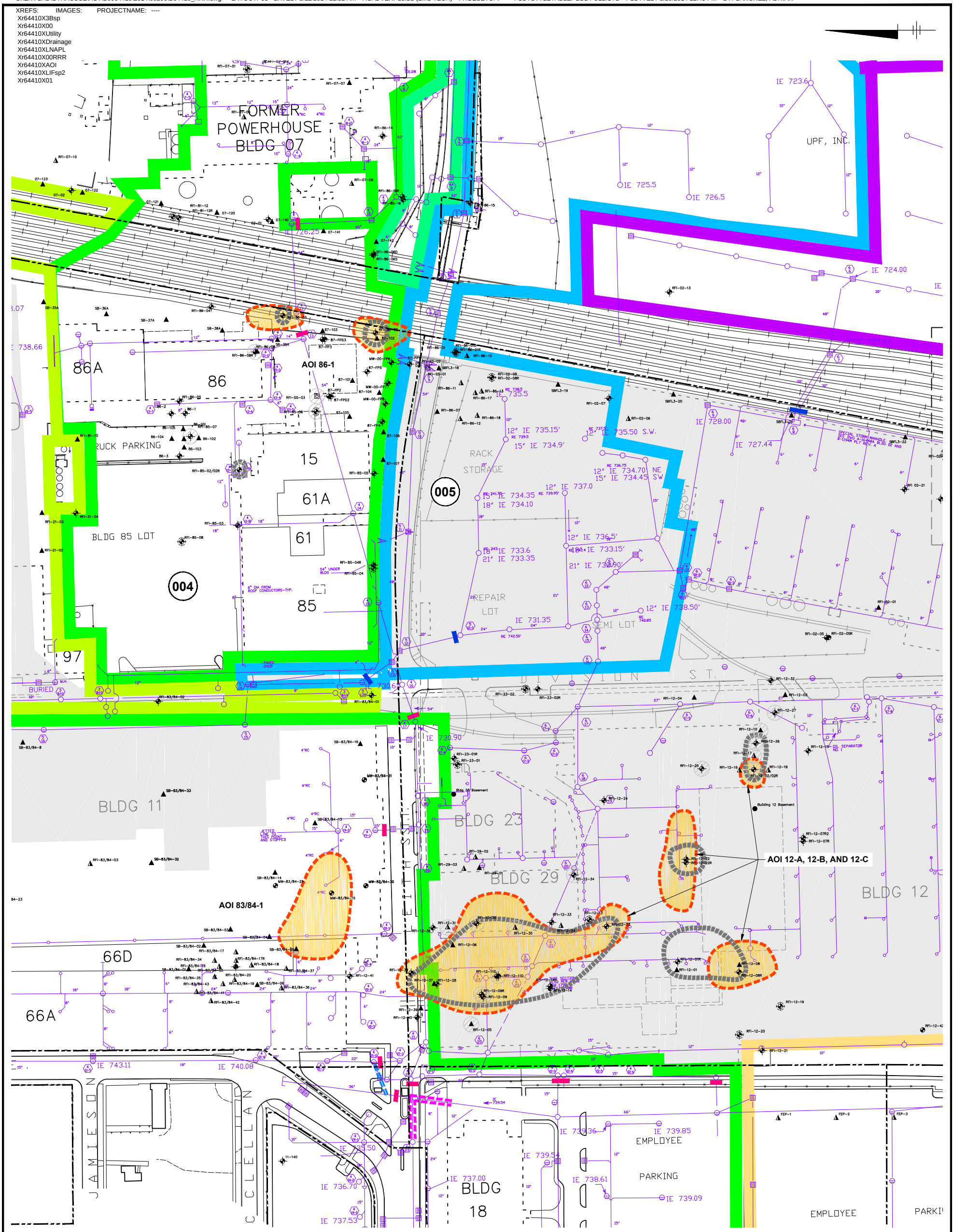
- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads, as shown on **Figure 5 of the main report** in **Attachment 3**.

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Figures

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\B0064410\2014\00206\B64410_RRR.dwg LAYOUT: 03 SAVED: 8/12/2014 11:32 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: BBL-FULL.CTB PLOTTED: 8/20/2014 12:43 PM BY: SANCHEZ, ADRIAN

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Xr64410X00
Xr64410XUtility
Xr64410XDrainage
Xr64410XLNAPL
Xr64410X00RRR
Xr64410XAOI
Xr64410XLIFsp2
Xr64410X01



NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

LEGEND:

- PROPERTY BOUNDARY
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (0.1 FEET)
- AREAS WITH NO DIRECT DRAINAGE TO THE STORM SEWER
- 004 — OUTFALL DRAINAGE AREA AND NUMBER
- STORM SEWER
- COMPLETED BULKHEAD
- PROPOSED REROUTE
- PROPOSED REROUTE
- PROPOSED OUTFALL 004 BULKHEAD LOCATION TO BE COMPLETED FOLLOWING REROUTE

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BUICK CITY
FLINT, MICHIGAN

OUTFALL 004 BULKHEADS AND REROUTE

ARCADIS

FIGURE
H3-1

Appendix H - Addendum No. 1

February 15, 2016

ARCADIS of Michigan, LLC
28550 Cabot Drive
Suite 500
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Tel 248 994 2240
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MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER

From:
Micki M. Maki

Date:
February 15, 2016

ARCADIS Project No.:
B0064410.2016

Subject:
Remedy Recommendation Report
Appendix H - AOI 83/84-1 Cutting Oil Area - Addendum No.1
Summary of Additional Investigations
RACER Buick City Site, Flint, Michigan

Introduction

This Addendum No. 1 to Remedy Recommendation Report Appendix H presents a summary of investigation data collected at the AOI 83/84-1 Cutting Oil Area from March 19, 2014 through December 31, 2015 at the Buick City Site (Site) located in Flint, Michigan.

Summary of Investigation Activities

Additional investigation activities conducted at AOI 83/84-1 consisted of conducting baildown testing and transmissivity evaluations. During the 2013 transmissivity event MW-83/84-15 did not meet the baildown testing requirements of having the air/LNAPL and LNAPL/water interfaces within the screened interval. Therefore, in December 2014 monitoring well MW-83/84-15R was installed at the AOI 83/84-1 LNAPL Area and screened from 3 to 13 feet below ground surface. In May 2015, MW-83/84-15 and MW-83/84-15R were gauged to determine if these wells met the requirements of transmissivity testing. The LNAPL-water interface at both wells was within the screened interval; however the air-LNAPL interface was only within

the screened interval at MW-83/84-15R. In June 2015 transmissivity testing was completed at both MW-83/84-15 and MW-83/84-15R. (**Figure H-A1-1**).

Summary of Data Evaluation

LNAPL Baildown test results were analyzed using the American Petroleum Institute (API) LNAPL Transmissivity Workbook (API Tool, API 2012) to calculate LNAPL transmissivity within the depth interval at which LNAPL is observed:

- B&R: Bouwer and Rice (1976)/Bouwer (1989), and
- C&J: Cooper and Jacob (1946)/Jacob and Lohman (1952).

Each of these solutions involves different assumptions regarding the response of fluid levels within the well to the removal of LNAPL. The B&R method was developed utilizing the assumption of steady, radial flow of LNAPL to the test well after test initiation, making it ideally suited for tests involving longer LNAPL purging times. The C&J method is better suited for tests involving more rapid LNAPL removal periods, or tests that do not exhibit steady state flow conditions because they incorporate transient storage effects. Additionally, the B&R method requires that there is a consistent relationship between changes in LNAPL drawdown and LNAPL thickness (the j-ratio) (API 2012 and ASTM International 2013). If there is significant variability in the j-ratio over the course of a test, analysis with the B&R method may be not be judged as appropriate, and only the C&J solution may be applied for analysis.

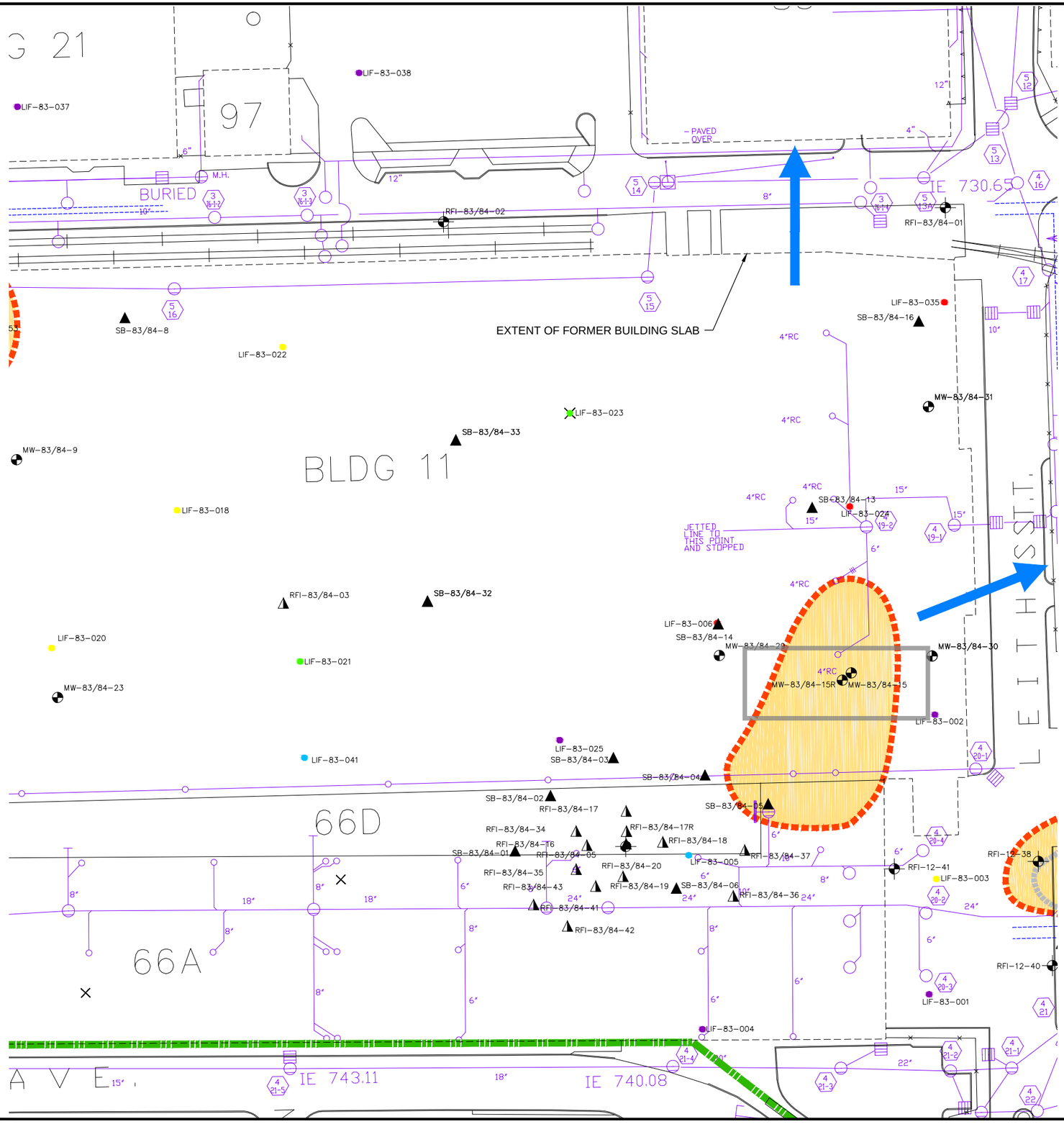
LNAPL transmissivity quantified by each method at MW-83/84-15 ranged from 0.24 to 0.71 ft^2/day and at MW-83/ 84-15R was 0.34 ft^2/day (**Table H-A1-1**).

The Michigan Department of Environmental Quality (MDEQ) published technical resource materials (MDEQ, 2014) that establish an LNAPL transmissivity 0.5 square feet per day (ft^2/day) as a lower-bound threshold where LNAPL recovery using hydraulic methods (e.g., LNAPL pumping, dual-phase extraction, and LNAPL skimming) is not typically practicable.

Table H-A1-1 2015 LNAPL Transmissivity Evaluation Results
Remedy Recommendation Report Appendix H - AOI 83/84-1 LNAPL Area - Addendum No.1
RACER Buick City Site, Flint, Michigan

Well ID	Date	Initial LNAPL Thickness (ft)	Test Duration (min)	Final LNAPL Thickness (ft)	LNAPL Transmissivity, T_n (ft^2/day)	
					Bouwer & Rice	Cooper & Jacob
AOI 83/84-1						
MW-83/84-15	6/11/2015	4.84	1430	3.4	0.24	0.71
MW-83/84-15R	8/14/2015	4.9	358	2.73	0.34	0.34

General Notes:
Bold Exceeds 0.1 to 0.8 ft^2/day lower criterion range to produce sufficient LNAPL recoverability (ITRC 2009a).
Underlined exceeds 0.5 ft^2/day which is the MDEQ established LNAPL transmissivity lower bound threshold below which LNAPL recovery using hydraulic tool is not typically practical
Acronyms and Abbreviations:
ft = feet
LNAPL = light non-aqueous phase liquid
min = minute
T_n = LNAPL Transmissivity
AOI = Area of Interest



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- STORM SEWER LINE
- GENERAL GROUNDWATER FLOW DIRECTION

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200
- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 02/15/2016.

0 40' 80'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 83/84-1 INVESTIGATION AREA AND LNAPL E□TENTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
H-A1-1

CITY: SYRACUSE DIV/GROUP: ENV DB: A.SANCHEZ LD: ALS/GMS PIC: C.S.PETERS PM: C.KIKER TM: C.KIKER LYR: ON=*;OFF=*REF*
G:\ENV\CAD\SYRACUSE\ACTIB0064410\2016\00207\64410_AOI83.84-1.dwg LAYOUT: H-A1-1 SAVED: 2/11/2016 12:25 PM ACADVER: 19.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 2/11/2016 12:25 PM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME: ----

Appendix I

AOI 83/84-4 Cutting Oil Area
Remedy Recommendation Memo

ARCADIS of Michigan, LLC
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MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER
Chris Peters, ARCADIS
Steve Gaito, ARCADIS

From:
Micki M. Maki
Victoria Stacey

Date:
August 29, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
Priority #10 - AOI 83/84-4 Cutting Oil Area
Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

As part of the light non-aqueous phase liquid (LNAPL) remedy evaluation process the Site's 17 LNAPL areas were prioritized based on risk. The area of interest (AOI) 83/84-4 Cutting Oil LNAPL Area (AOI 83/84-4 LNAPL Area) is ranked as Priority #10 with a total potential risk score of 5 (**Table 5 of the main report**). A conceptual site model cross-section is attached (**Figure I-1**) that provides an overview of the AOI 83/84-4 LNAPL Area impacts and interim measures (IMs).

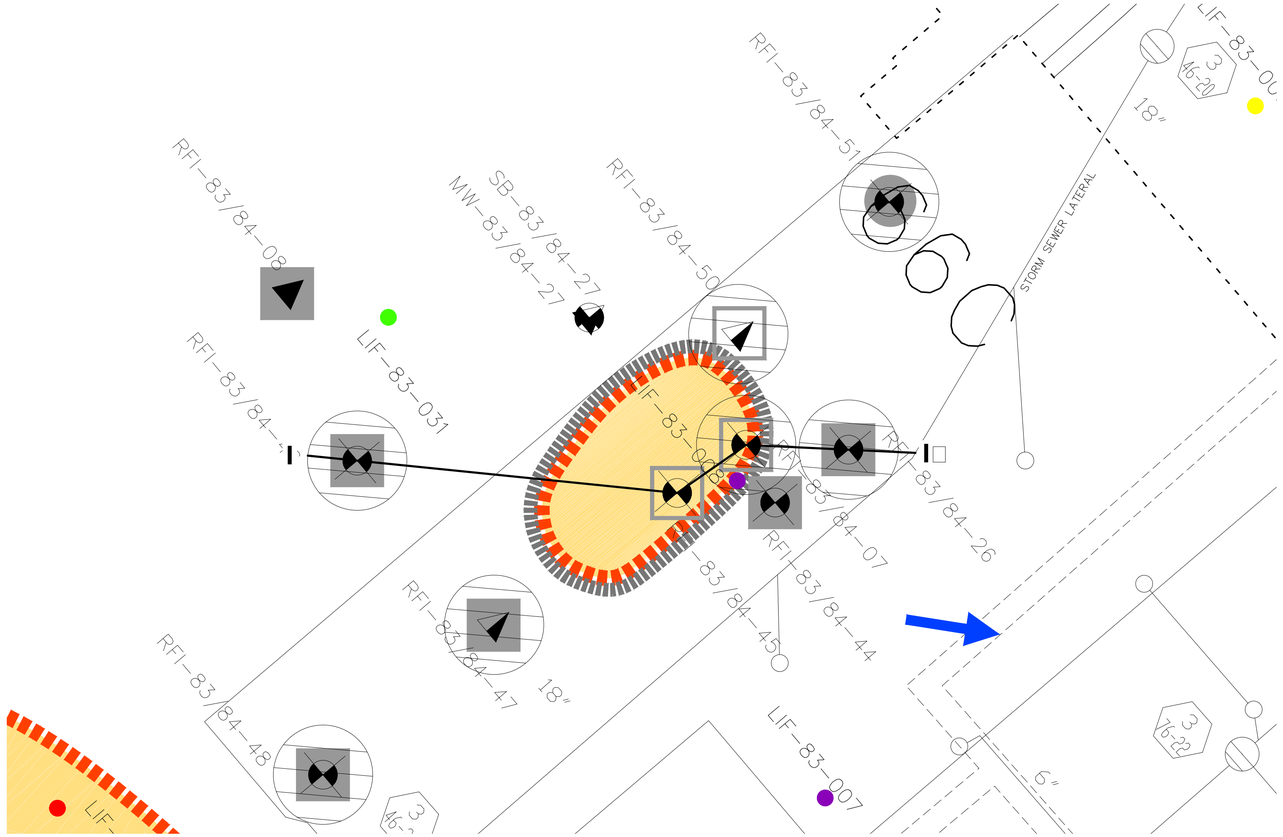
Historical IMs completed at the AOI 83/84-4 LNAPL Area include an LNAPL bailing program.

The compositional and saturation concerns identified for the AOI 03-1 LNAPL Area were evaluated in the LNAPL decision tree (**Attachment 2**) and are summarized below:

- There are potentially unacceptable groundwater surface water interface (GSI) and vapor phase concerns associated with the AOI 83/84-4 LNAPL Area.
- While there is a lateral for the Outfall 003 storm sewer located downgradient of both the AOI 83/84-4 LNAPL area and RFI-83/84-51, a review of Site data indicate that the groundwater table is rarely in connection with the storm sewer lateral.

- Theoretically, there is a potential unacceptable vapor phase exposure risk associated with methane for future redevelopment scenarios; however, this will be addressed by the proposed institutional controls.
- No feasible options exist to mitigate unacceptable risk through compositional change.
- The LNAPL is not migrating or readily recoverable.

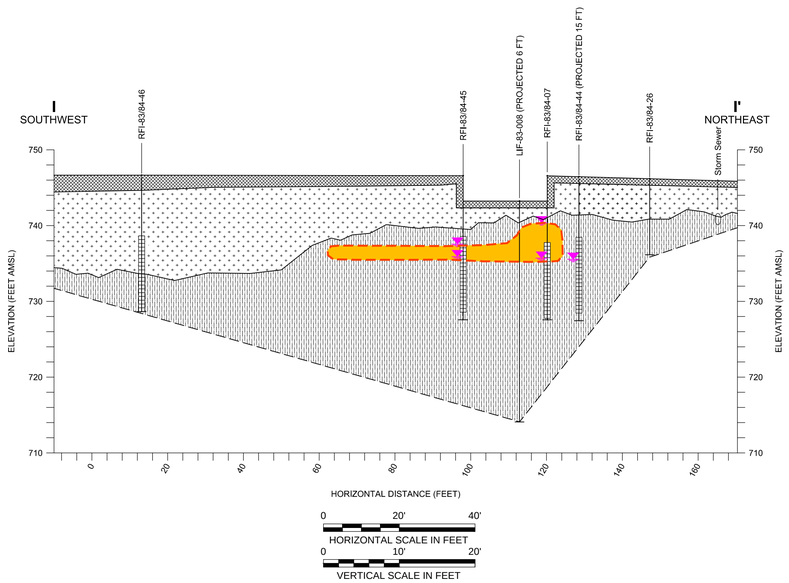
Based on the current understanding of the conceptual site model, the compositional and saturation concerns associated with AOI 83/84-4 area can effectively be mitigated through institutional controls.



PLAN

0 20' 40'

GRAPHIC SCALE

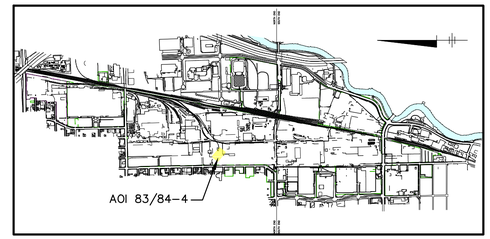


0 20' 40'

HORIZONTAL SCALE IN FEET

0 10' 20'

VERTICAL SCALE IN FEET



SITE MAP

0 2000' 4000'

SCALE IN FEET

AOI 83/84-4 CUTTING OIL AREA

□EY LNAPL COMPOSITION AND SATURATION CONCERNS

1) POTENTIAL VOLATILIZATION TO INDOOR AIR CONCERN FOR FUTURE STRUCTURES
2) THE GROUNDWATER TABLE IS RARELY IN CONNECTION WITH THE STORM SEWER LATERAL; THEREFORE THE GSI/GSIP PATHWAY IS NOT RELEVANT
3) TRANSMISSIVITY BELOW MDEQ AND ITRC VALUES

COMPLETED INTERIM MEASURES AND RECOMMENDED REMEDIES

R-1) INSTITUTIONAL CONTROLS

NOTES:

1. BASE MAP INFORMATION FROM SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/14.
3. FILL MATERIAL CONSITS OF SILTY SAND AND SAND AT RFI-83/84-07 AND RFI-83/84-26, WHILE AT RFI-83/84-44 THROUGH RFI-83/84-46 THE FILL MATERIAL IS PRIMARILY FOUNDRY SAND UNDERLAIN BY SILTS AND SAND.

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BUICK CITY, FLINT, MICHIGAN

AOI 83/84-4
CONCEPTUAL SITE MODEL
CROSS SECTION I-I□

ARCADIS

FIGURE
I-1

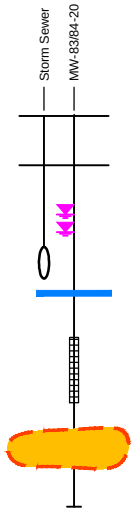
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PLOTSTYLETABLE: BBL-FULL.CTB PLOTTED: 8/25/2014 8:39 AM BY: SANCHEZ, ADRIAN

LEGEND

- PROPERTY BOUNDARY
- HISTORICAL LNAPL EXTENT
- CURRENT LNAPL EXTENT
- STORM SEWER
- ABANDONED STORM SEWER LATERAL
- APPROXIMATE LOCATION OF RECOVERY TRENCH
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- A1 — A1 LINE OF SECTION
- RFI MONITORING WELL LOCATION
- MONITORING WELL LOCATION
- RECOVERY WELL (NAPL) LOCATION
- PIEZOMETER LOCATION
- SOIL BORING LOCATION
- DECOMMISSIONED WELL LOCATION
- EVIDENCE OF PRODUCT OBSERVED IN SOIL

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

- <5
- 5–10
- 10–100
- 100–200
- >200
- HAND AUGER REFUSAL (TOP 5')
- GROUNDWATER SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- GROUNDWATER SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- SOIL SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES DO NOT EXCEED APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES EXCEED ONE OR MORE APPLICABLE CRITERIA



- WELL/BORING ID
- EXISTING GRADE
- LITHOLOGICAL CONTACT (DASHED WHERE INFERRED)
- NAPL LEVEL (HISTORIC HIGH AND LOW LEVELS)
- WATER TABLE
- WELL SCREEN
- APPROXIMATE EXTENT OF LNAPL
- WELL/BORING BOTTOM
- ASPHALT
- CONCRETE
- CLAY
- FILL
- GRAVEL
- INTERBEDDED SAND AND CLAY
- INTERBEDDED SANDS AND SILTS
- INTERBEDDED SILT AND CLAY
- SAND
- SILT
- SILTY SAND

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FLINT, MICHIGAN

CROSS SECTION LEGEND

ARCADIS

FIGURE
I-2

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB0064410\2014\00206\Xsections\64410V01.DWG LAYOUT: 1A SAVED: 7/11/2014 11:58 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: BBL-FULL.CTB PLOTTED: 7/11/2014 1:56 PM BY: SANCHEZ, ADRIAN
XREFS: IMAGES: PROJECTNAME: ---
Xr64410X3Bsp
Xr64410XDrainage
Xr64410X01
Xr64410XLIFsp2
Xr64410X01
Xr64410XAOI
Xr64410XLNAPL

Attachment 1

LNAPL Conceptual Site Model

Priority #10 - AOI 83/84-4 Cutting Oil LNAPL Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 1 - Conceptual Site Model

This attachment presents a conceptual site model for the Area of Interest (AOI) 83/84-4 Cutting Oil light non-aqueous phase liquid (LNAPL) Area (AOI 83/84-4 LNAPL Area). The AOI 83/84-4 LNAPL Area is located at the Buick City Site (Site) located in Flint, Michigan (**Figure I1-1**).

1. Background

AOI 83/84-4 is located in the Building 66C portion of the former Factory 83/84 Area in the southwestern portion of the Northend of the Site (**Figure 2**). Historically, the former Factory 83/84 Area was primarily used as a gray iron foundry prior to 1981. From 1981 to 2010, the area was historically used for welding, machining and assembly of torque converters. Historic operations at AOI 83/84-4 involved "wet" machining operations including various metal chip conveyors trenches, process fluid recirculation and/or recovery sumps and pits, product supply sumps and storage areas, and metal chip processing. AOI 83/84-4 also included an inactive rail loading area and associated floor sumps. The floor of the loading area was saturated with oil and the sumps contained oil. LNAPL accumulation at AOI 83/84-4 is presumably due to historical releases associated with operations in this area.

Investigation data previously presented in Site reports are not re-presented in this memo. However, pertinent AOI 83/84-4 investigation data that has not previously been presented in a Site report is attached.

2. Former Interim Measures

2.1 LNAPL Monitoring and Bailing Program

During the Site-wide LNAPL monitoring program conducted from 2003 through 2004, a total of approximately 2.49 gallons of LNAPL was recovered during quarterly bailing events in the AOI 83/84-4 LNAPL Area.

3. AOI 83/84-4 Site Setting and Data Summary

This section provides a summary of the geology, hydrogeology, analytical data, and LNAPL characteristics and extent of impacts for the AOI 83/84-4 LNAPL area.

Figure I1-2 presents the locations of the existing and abandoned monitoring wells and soil borings in the AOI 83/84-4 area.

3.1 AOI 83/84-4 Geology and Hydrogeology

- *Geology:* The soils at AOI 83/84-4 consist of primarily fine to medium Sand to Silty sands interbedded with silts to a depth of approximately 13 feet bgs that are underlain by Silt with some clay. The boring logs also indicated evidence of impacts from as shallow as 3 feet bgs and as deep as 13 feet bgs.

- *Groundwater/LNAPL Levels:* Seven monitoring wells (RFI-83/84-07, RFI-83/84-26, RFI-83/84-44, RFI-83/84-45, RFI-83/84-46, RFI-83/84-48, and RFI-83/84-51) at the AOI 83/84-4 LNAPL Area are gauged to monitor the extent of the LNAPL. Depth to groundwater (or LNAPL, where present) in this area is generally 10 feet bgs. The AOI 83/84-4 LNAPL area is defined by two monitoring wells (RFI-83/84-07 and RFI-83/84-45). The greatest thickness of LNAPL measured at RFI-83/84-07 was 5.23 feet in 2012. Most recently, in June 2013, LNAPL thicknesses ranged from 1.15 to 1.29 feet in the AOI 83/84-4 monitoring wells. The March and June 2013 groundwater level data are presented in **Appendix X.**

  Based on historic fluid level gauging data, groundwater flow in this portion of the Site is generally to the south and southeast.

3.2 Groundwater and Soil Analytical Data

Groundwater and soil analytical data collected in the vicinity of the AOI 83/84-4 LNAPL Area were compared to applicable Michigan Part 201 nonresidential criteria. Pertinent analytical data is presented in **Appendix X**.

3.2.1 Groundwater Analytical Data

Groundwater samples were collected from one monitoring well (RFI-83/84-51) located at AOI 83/84-4. A groundwater sample exceeded groundwater surface water interface (GSI) criteria for arsenic (110/10ug/L), beryllium (140/32.3ug/L), copper (31/21.6ug/L) and silver (1.9/0.2ug/L). RRFI-83/84-51 is located side gradient of the AOI 83/84-4 LNAPL Area with respect to groundwater flow, not downgradient. A lateral for the Outfall 003 storm sewer is located downgradient of both the AOI 83/84-4 LNAPL Area and RFI-83/84-51, which

based on a comparison of groundwater and storm sewer elevations indicates that groundwater table is rarely in hydraulic connection with the storm sewer lateral. Only one groundwater level measurement collected in the last 10 years showed the groundwater level above the invert elevation of the Outfall 003 lateral. In addition, downgradient Outfall 003 and 005 storm sewers in the Factory 83/84 Area have been bulkheaded and do not present a GSI pathway.

3.2.2 Soil Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), and Metals Analytical Data

Soil samples were collected from 10 locations at AOI 83/84-4. The soil samples exceeded groundwater surface water interface protection (GSIP) criteria for 2-Methylnapthalene (5.05/1 mg/kg), carbazole (2.97/1.1 mg/kg), fluoranthene (14.6/5.5 mg/kg), naphthalene (0.908 - 1.87/0.73mg/kg), phenanthrene (2.46-11.9/2.1 mg/kg), arsenic (7.3-16/4.6 mg/kg), chromium 11-53/2 mg/kg), cobalt (7.4/2mg/kg), copper (160-2200/124 mg/kg), cyanide (21/0.1 mg/kg), manganese (490-1100/95.3 mg/kg), mercury 0.135/0.05 mg/kg, and silver (7.3/0.1 mg/kg).

3.2.3 GSI Evaluation

As discussed in further detail in **Appendix BB**, GSI exceedances in the Site storm sewers are being evaluated by the ongoing NPDES Plus Monitoring Program (NPMP). At AOI 83/84-4 the storm sewer represents an intermittent pathway as groundwater levels in this portion of the Site are generally deeper than the invert elevation of the storm sewer; however, levels do fluctuate and are occasionally above the invert. The monthly NPMP samples collected from the Outfall 003 storm sewer (which services this portion of the Site) as part of the NPMP have not exhibited concentrations of VOCs, SVOCs, or beryllium above GSI criteria at the downgradient monitoring point. However, in the last 36 sampling events there have been two exceedances of GSI criteria for silver and one exceedance for arsenic and copper. Note that arsenic and copper were also detected in storm sewer samples collected at the Site's upgradient property boundary.

Data evaluations completed to date suggest that the majority of the metals impacts in the Outfall 003 storm sewer can be addressed a mixing zone based remedy; however, additional data collection and evaluation is needed.

3.2.4 Soil PCB Analytical Data

A review of the analytical data at AOI 83/84-4 indicates that PCBs were detected in one of the 19 soil samples collected at a concentration of 0.59 mg/kg.

3.2.5 Vapor Intrusion Evaluation

Due to the presence of shallow groundwater and LNAPL (approximately 7 feet below ground surface) at the AOI 83/84-4 LNAPL Area, groundwater data were also compared to the applicable Non-Residential Screening Values for the Vapor Intrusion Pathway presented in the *Michigan Department of Environmental Quality (MDEQ) Guidance Document for the Vapor Intrusion Pathway* (further discussed in Section 3.4 of the Report). Groundwater concentrations do not exceed applicable screening levels.

As there are no structures at the Site the MDEQ Part 201 criteria are appropriate for comparison of soil data. Soil data did not exceed applicable screening levels.

3.3 LNAPL Characteristics

- *LNAPL Analytical Data:* LNAPL present at AOI 83/84-4 consists primarily of cutting oil. Additional analysis indicated that:
  - The LNAPL has a viscosity ranging from 42.5 to 62.4 centipoise (cp), interfacial tension ranging from 14 to 19 dynes/centimeter, and a specific gravity of 0.88. This data is used to evaluate LNAPL recoverability and as part of the LNAPL transmissivity analysis.
  - Concentrations of arsenic exceed toxicity characteristic leaching procedure (TCLP) criteria; however, TCLP analysis has not been conducted.

  For reference, the viscosity (at 100 degrees Fahrenheit) of olive oil is 43.2 cp and honey is 73.6 cp (Ingersoll-Rand, 1981). Applicable LNAPL analytical data are presented in **Appendix X**.

- *LIF Data:* Four LIF borings were completed in the AOI 83/84-4 LNAPL Area. The LIF waveform signatures observed in this area are consistent with the known LNAPL type, cutting oil. The vertical range of LIF impact (greater than 5%RE) at the AOI 83/84-4 LNAPL Area is typically 6 to 12 feet bgs. **Figure I1-2** presents the results of the LIF investigation associated with the AOI 83/84-4 LNAPL area.

- *Transmissivity:* An LNAPL transmissivity study was completed at the AOI 83/84-4 Area in April 2013. Based on LNAPL baildown test results, LNAPL transmissivity quantified at monitoring well RFI-83/84-07 was 0.03 square feet per day (ft^2/day), which is less than both the Interstate Technology Regulatory Council (ITRC) and MDEQ threshold values for practical hydraulic recovery.

- *Natural Source Zone Depletion:* NSZD testing was not attempted at AOI 83/84-4 due to the presence of a concrete slab. The testing completed at the Southend of the Site indicated that NSZD is occurring; however, the currently available testing technologies cannot

reliably quantify LNAPL depletion beneath a concrete slab. In addition, when nearby monitoring well MW-83/84-7 was installed during the AOI 83/84-5 LNAPL Area investigation, methane was detected indicating that NSZD may be occurring in this portion of the Site. This methane detection is further discussed in the AOI 83/84-5 memo presented in **Appendix K**.

3.4 Extent of LNAPL

During the RCES preparation, the AOI 83/84-4 LNAPL Area was calculated based on available Site data. The footprint of the LNAPL area containing approximately 0.5 ft. or greater of LNAPL as measured in monitoring wells was estimated to be approximately 3,300 square feet. Based on the LIF and soil boring log data, approximate depth impacts are approximately 3 to 13 ft. bgs. The recently completed field work does not indicate a need to change the extent (as discussed in Section 2.1.3 of the main report) of the measurable LNAPL area.

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Boring Logs

Date Start: 9/11/13
Date Finish: 9/11/13
Drilling Company: Cascade
Driller's Name: Dan O'Mara
Drilling Method: Sonic
Sampling Method: 4" Core Barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.5
Water Level Finish (ft. btoc.): NA

Northing: 564632.78
Easting: 13305259.70
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0
Surface Elevation: 746.73

Descriptions By: Drew Shaw

Well/Boring ID: **SB-83/84-27**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: 85 Degrees F, Sunny

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 745	1	0.0-5.0'	4.0	NA			(0.0-1.0') CONCRETE		
				1.5			(1.0-10.5') SAND, very fine to medium, subround; little granules to small pebbles, round; poorly sorted; dry; black (10YR 2/1). Note: Moderate Odor.		
				2.5					
				2.5					
5 / 740				1.5					
				10.1					
				10.1					
				20.5					
				38.1			Note: Wood chunk from 8.0 to 8.2' bgs.		
				45.1					
10 / 735	2	5.0-15.0'	10.0				Note: Small wood chunk at 10.2' bgs.		
				52.5			(10.5-15.0') SAND, very fine to medium, subround; well sorted; wet; grayish brown (10YR 5/2).		
				20.1					
				5.0					
				1.0					
15 / 730				1.0			End of Boring at 15.0' bgs.		
20									

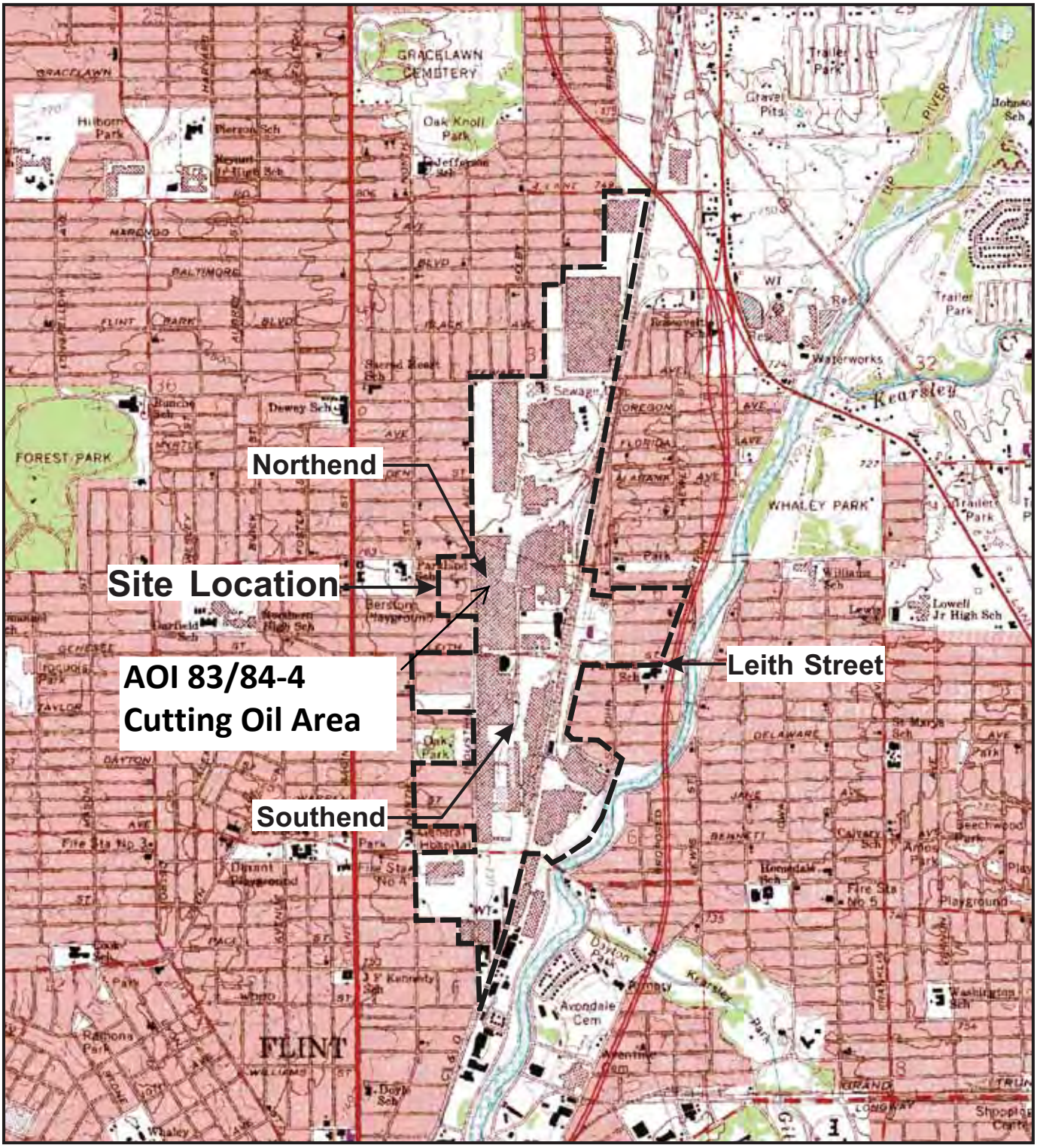
Borehole abandoned with bentonite

ARCADIS
Infrastructure · Water · Environment · Buildings

Remarks: Hand augered to 5.0' bgs.
SB-83/84-27(9.5-10.5) collected at 1620.

ARCADIS

Figures



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quad., Flint North, Mich. (1969, Photorevised 1975).

2000' 0 2000'

Approximate Scale: 1" = 2000'



Area Location

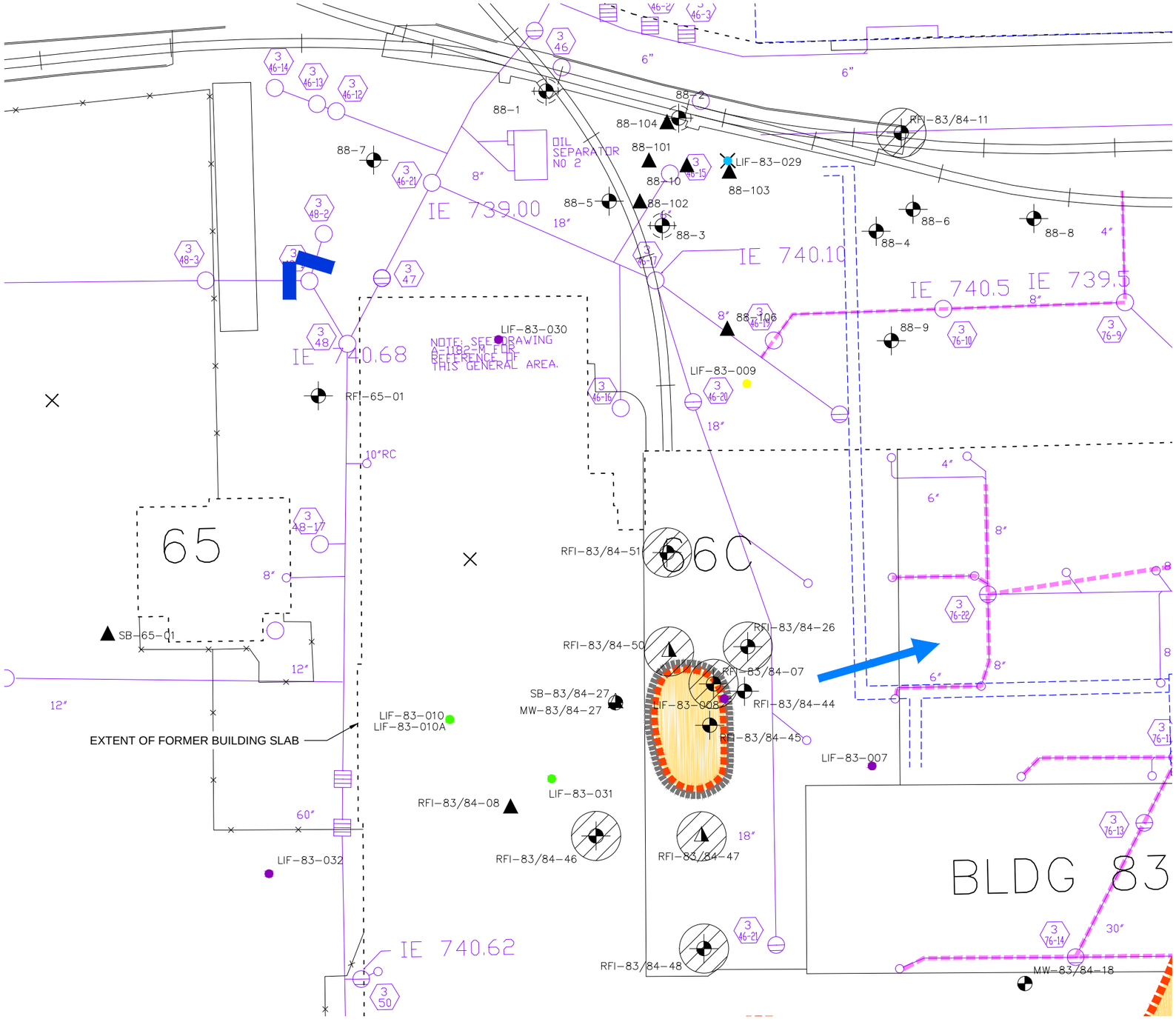
RACER TRUST
BUICK CITY, FLINT, MICHIGAN

SITE LOCATION MAP

ARCADIS

FIGURE
I1-1

03/12/2012 SYRACUSE, NY-ENV/CAD-141-DJHOWES
B0064410/2012/01202/CDR/64410N01.CDR



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- STORM SEWER LINE
- GENERAL GROUNDWATER FLOW DIRECTION
- ABANDONED STORM SEWER LATERALS

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200
- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.. AREAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 30' 60'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 83/84-4 INVESTIGATION LOCATIONS AND LNAPL E□TENTS

ARCADIS

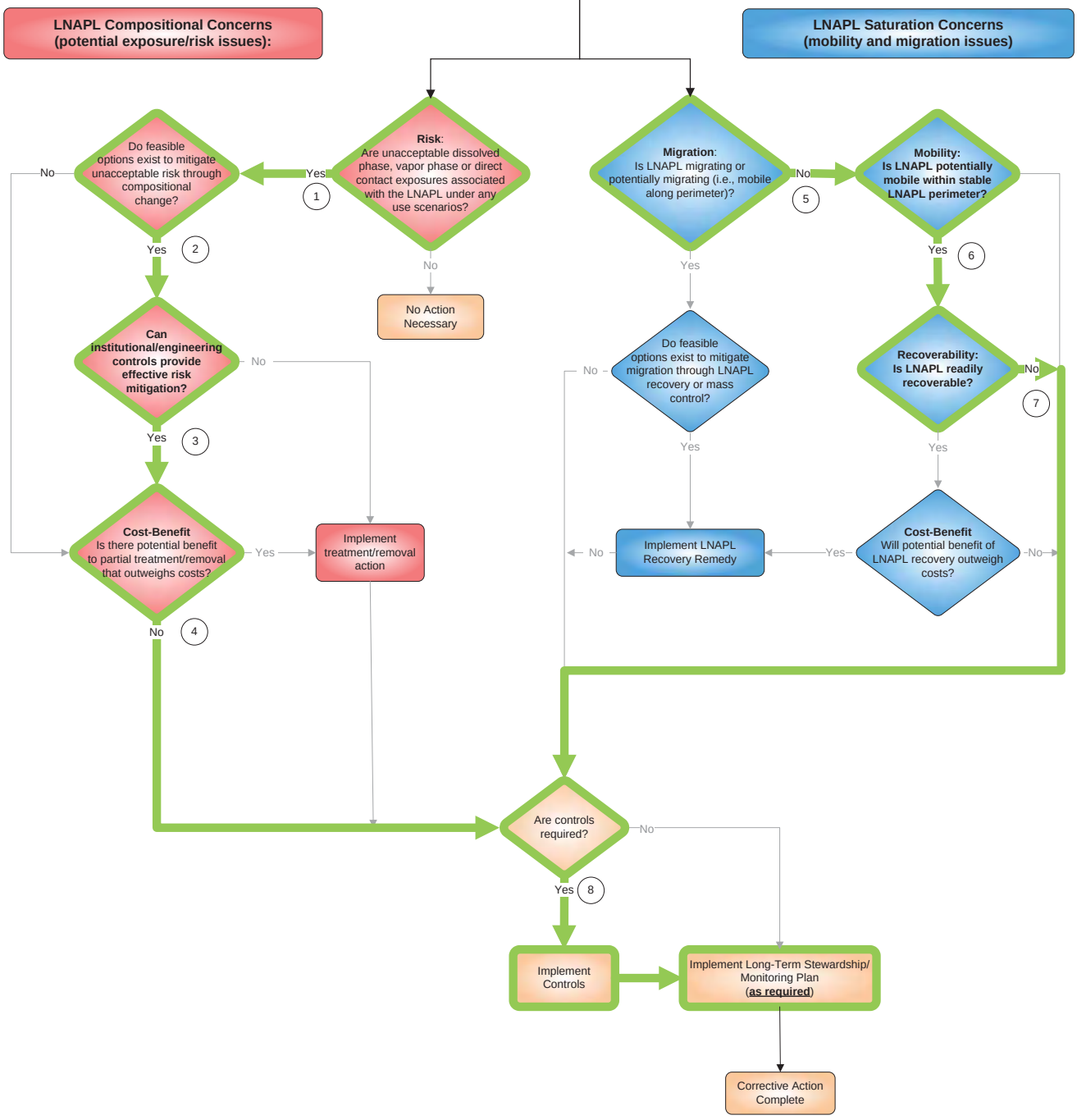
FIGURE
I1-1

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
C:\Users\alsanchez\Desktop\ACT\B0064410\2014\0020\B64410_AOI 83.84-4-5.dwg LAYOUT: I1-1 SAVED: 8/25/2014 8:35 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ----
IMAGES: PROJECTNAME: ----

Attachment 2

LNAPL Remedial Decision Tree

Attachment 2 LNAPL Remedial Decision Tree Priority #10 – AOI 83/84-4 Cutting Oil Area



NOTES

(#) NOTES: See Page I2-2

Please see Appendix W for the LNAPL Remedial Decision Tree Template that lists additional sources of pertinent information used in the evaluation of the decision points (i.e. tables).

Attachment 2 Notes

Priority #10 - AOI 83/84-4 Cutting Oil Area

Background: The AOI 83/84-4 Cutting Oil light non-aqueous phase liquid (LNAPL) Area (AOI 83/84-4 LNAPL Area) is located at Building 66C in the former Factory 83/84 area in the southwestern portion of the Northend of the Site. Historic operations in former Factory 83/84 area involved "wet" machining operations including various metal chip conveyors trenches, process fluid recirculation and/or recovery sumps and pits, product supply sumps and storage areas, and metal chip processing. The AOI 83/84-4 area also includes an inactive rail loading area and associated sumps. The floor of the loading area was saturated with oil and the sumps contained oil. The occurrence of LNAPL in the AOI 83/84-4 LNAPL Area is presumably due to historical releases associated with operations in this area. There are currently no buildings within the AOI 83/84-4 LNAPL Area. The entire AOI 83/84-4 LNAPL Area is beneath the concrete footprint of former Factory 83/84.
Geology and Hydrogeology: The soils at AOI 83/84-4 consists of primarily fine to medium sand to silty sands interbedded with silts to a depth of approximately 13 feet bgs that are underlain by silt with some clay. Depth to groundwater in this area varies greatly and has been measured as shallow as 3.72 feet bgs, as deep as 12.92 feet bgs, and averages around 10 feet bgs. Based on historic fluid level gauging data, groundwater flow in this portion of the Site is generally to the south-southeast.

LNAPL Characteristics: Boring logs in the AOI 83/84-4 LNAPL Area show evidence of impacts from as shallow as 3 feet bgs and as deep as 13 feet bgs, across the area. Thicknesses of product greater than 0.5 feet have been measured at two monitoring wells (RFI-83/84-07 and RFI-83/84-45). At both RFI-83/84-07 and RFI-83/84-45, historical thicknesses of up to 2.05 feet of product were measured; however, during recent years, thicknesses have been measured at less than two feet. The LNAPL has a viscosity ranging from 42.5 centipoise (RFI-83/84-07) to 62.4 centipoise (RFI-83/84-45), interfacial tension ranging from 14 to 19 dynes/centimeter (RFI-83/84-07), and a specific gravity of 0.88 (at both locations). The LNAPL also contains arsenic and/or lead at concentrations that exceed the RCRA toxicity characteristic at two locations (RFI-83/84-07 and RFI-83/84-45); however, toxicity characteristic leaching procedure (TCLP) analysis has not been conducted.

1) *Are unacceptable dissolved phase, vapor phase, or direct contact exposures associated with the LNAPL under any use scenarios?*

   YES – The following potential risk/exposure concerns are associated with the AOI 83/84-4 LNAPL Area:

   - Groundwater surface water interface (GSI): Concentrations of select volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals in groundwater and soil samples collected from the AOI 83/84-4 area exceed GSI or GSI protection (GSIP) criteria. Based upon a comparison of nearby groundwater and storm sewer lateral elevations, the groundwater table is rarely in connection with the storm sewer lateral.

     In addition, VOC and SVOC concentrations in the monthly samples collected from the Outfall 003 storm sewer (which services this portion of the Site) as part of the NPDES Plus Monitoring program (NPMP) do not exceed GSI criteria; however, select metals have been detected above criteria, intermittently.

   - Potential Volatilization to Indoor Air Concerns for Future Structures: Theoretically, there is a potential unacceptable vapor phase exposure risk associated with methane for future redevelopment scenarios; however, this will be addressed by the proposed institutional controls.

2) *Do feasible options exist to mitigate unacceptable risk through compositional change?*

   YES – Targeted in-situ soil mixing/land farming to address the petroleum constituents may be technically feasible. However, other options evaluated were not feasible as discussed below:

   - Enhanced dissolution and recovery via surfactant or hot water flushing may enhance LNAPL recovery; however, it is not a viable option based on the presence of nearby City sewers. The use of surfactant would increase mobility and therefore, likely increase the potential for LNAPL infiltration into the Outfall 003 storm sewer main. The Outfall 003 storm sewer main is located approximately 100 feet upgradient of the AOI 83/84-4 LNAPL Area and is larger and deeper than the downgradient Outfall 003 lateral discussed in **Attachment 1**. As shown on **Figure 7 of the main Report** there are numerous utilities at AOI 83/84-4 which could provide pathways for the LNAPL if the mobility were increased.

   - Cutting oils have low volatility rendering remedial technologies that rely on vapor-phase partitioning infeasible on a technical basis.

   - In situ thermal remediation may be technically feasible for the area; however, it is not a viable option based on the proximity of City storm sewers. The storm sewer main in this portion of the Site is an old clay-tile sewer. The heat generated by this technology could compromise the sewer potentially causing a collapse of the pipe. There are also older water lines, sanitary sewers, etc. (since this area was a manufacturing facility for over 100 years) that may be damaged by high temperatures. Also, increasing the water temperature in the storm sewer could have a negative on the Flint River ecosystem.

Attachment 2 Notes

Priority #10 - AOI 83/84-4 Cutting Oil Area

3) Can institutional/engineering controls provide effective risk mitigation

YES – Based on the current understanding of risk conditions, the potential GSI/GSIP and volatilization to indoor air risk can be effectively mitigated through institutional controls.

4) Is there a potential benefit to partial treatment/removal that outweighs costs?

NO – Based on the current understanding of risk conditions, the potential GSI/GSIP, and the volatilization to indoor air risk can be effectively mitigated through institutional controls.

5) Is LNAPL migrating or potentially migrating (i.e. mobile along the perimeter)?

NO – The AOI 83/84-4 LNAPL Area appears to be stable. This finding is supported by the following lines of evidence:

- Well Gauging Data: Sentinel wells located around the periphery of the AOI 83/84-4 LNAPL Area have remained free of LNAPL since monitoring began approximately 10 years ago.
- Age of LNAPL Release: The AOI 83/84-4 LNAPL Area was identified in 2002. Operations began in this portion of the Site in the 1909 and ceased in this portion of the Site in mid-2000s with the building being demolished in 2011. LNAPL bodies typically stabilize within 2 to 5 years after a release has been stopped (ITRC, 2012).

6) *Is LNAPL mobile within the stable LNAPL perimeter?*

YES – LNAPL is present at two monitoring wells in the AOI 83/84-4 area indicating that the LNAPL is mobile within the stable perimeter.

7) Is LNAPL readily recoverable?

NO – Historic LNAPL bailing activities recovered minimal quantities of LNAPL. In addition, transmissivity testing completed within the AOI 83/84-4 LNAPL Area at monitoring well RFI-83/84-07 was quantified at 0.03 square feet per day (ft^2/day), which is less than both the Interstate Technology Regulatory Council (ITRC) and Michigan Department of Environmental Quality (MDEQ) draft standard threshold values indicating that LNAPL recovery is not practicable.

8) Are controls required?

YES – The Site-wide institutional controls are proposed, for the AOI 83/84-4 LNAPL Area to limit future exposure.

Attachment 3

Remedy Recommendations

Priority #10 - AOI 83/84-4 Cutting Oil LNAPL Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 3 – Recommended Remedy

This attachment presents the recommended remedies for the Area of Interest (AOI) 83/84-4 Cutting Oil light non-aqueous phase liquid (LNAPL) area (AOI 83/84-4 LNAPL Area).

1. Compositional and Saturation Concerns

The LNAPL Decision Tree Analysis presented in **Attachment 2** identified groundwater surface water interface (GSI) and volatilization to indoor air as potential compositional concerns for AOI 83/84-4 and mobility as a saturation concern. The potential GSI concern is based on the detection of select volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals in groundwater and soil samples at concentrations that exceed the GSI or GSI protection (GSIP) criteria. The potential volatilization to indoor air concern is due to the biodegradation of LNAPL generating methane that could potentially result in indoor air concerns for future structures.

2. Remedy Recommendation Rationale

The remedy recommended to address the compositional and saturation concerns associated with the AOI 83/84-4 LNAPL Area is institutional controls, which is discussed in detail in Section 3.The rationale for this selection is detailed below:

- Volatile organic compounds, semi-volatile organic compounds, and select metals have been detected above GSI criteria and/or GSIP criteria; however:
    - While there is a lateral for the Outfall 003 storm sewer located downgradient of both the AOI 83/84-4 LNAPL area and RFI-83/84-51, a review of Site data indicate that the groundwater table is rarely in connection with the storm sewer lateral. In addition GSI exceedances in the Site storm sewers are discussed in further detail in **Appendix BB**.
    - Downgradient Outfall 003 and 005 storm sewers in the Factory 83/84 Area have been bulkheaded and do not represent a GSI pathway.

- The monthly NPDES Plus Monitoring Program (NPMP) sample collected from Outfall 003 has not exhibited concentrations of VOCs, SVOCs, and beryllium above GSI criteria at the monitoring point; and
- As discussed in **Appendix BB**, the majority of metals exceedances identified in the Outfall 003 storm sewer will likely be addressed by a mixing zone remedy; however, additional data collection and evaluation is needed.

- Based on the current understanding of risk conditions, the potential volatilization to indoor air risk for future structures can be effectively mitigated through the Site-wide institutional controls.
- Although the LNAPL at AOI 83/84-4 is mobile within the stable perimeter, transmissivity testing indicates that recovery is not practical. The LNAPL transmissivity quantified at monitoring well RFI-83/84-07 was 0.03 square feet per day (ft^2/day), which is less than both the ITRC and MDEQ threshold values for practical hydraulic recovery.
- From 2003 to 2005, nine quarterly LNAPL recovery events removed a total of only 2.49 gallons of LNAPL from AOI 83/84-4 wells.

3. AOI 83/84-4 Remedies

3.1 Completed Interim Measures

During the Site-wide LNAPL monitoring program conducted from 2003 through 2004, a total of approximately 2.49 gallons of LNAPL was recovered during quarterly bailing events in the AOI 83/84-4 LNAPL Area. The partial removal of LNAPL has been completed in this area and is considered a component of the remedy.

3.2 Additional Remedy Recommendations

The remedy recommended to address the volatilization and mobility concerns associated with AOI 83/84-4 area is historic interim measures and to establish institutional controls. This remedy will prevent future worker exposure to LNAPL impacts in the long term.

3.2.1 Institutional Controls

Site-wide Institutional Controls discussed in the main report will be implemented to limit potential for future exposure.

Appendix J

AOI 40-A, -B and 16-C Fuel Oil Area Remedy Recommendation Memo

ARCADIS of Michigan, LLC
28550 Cabot Drive
Suite 500
Novi
Michigan 48377
Tel 248 994 2240
Fax 248 994 2241

MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER
Chris Peters, ARCADIS
Steve Gaito, ARCADIS

From:
Micki M. Maki
Victoria Stacey

Date:
August 29, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
Priority #11 - AOI 40-A, -B, & 16-C Fuel Oil LNAPL Areas
Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

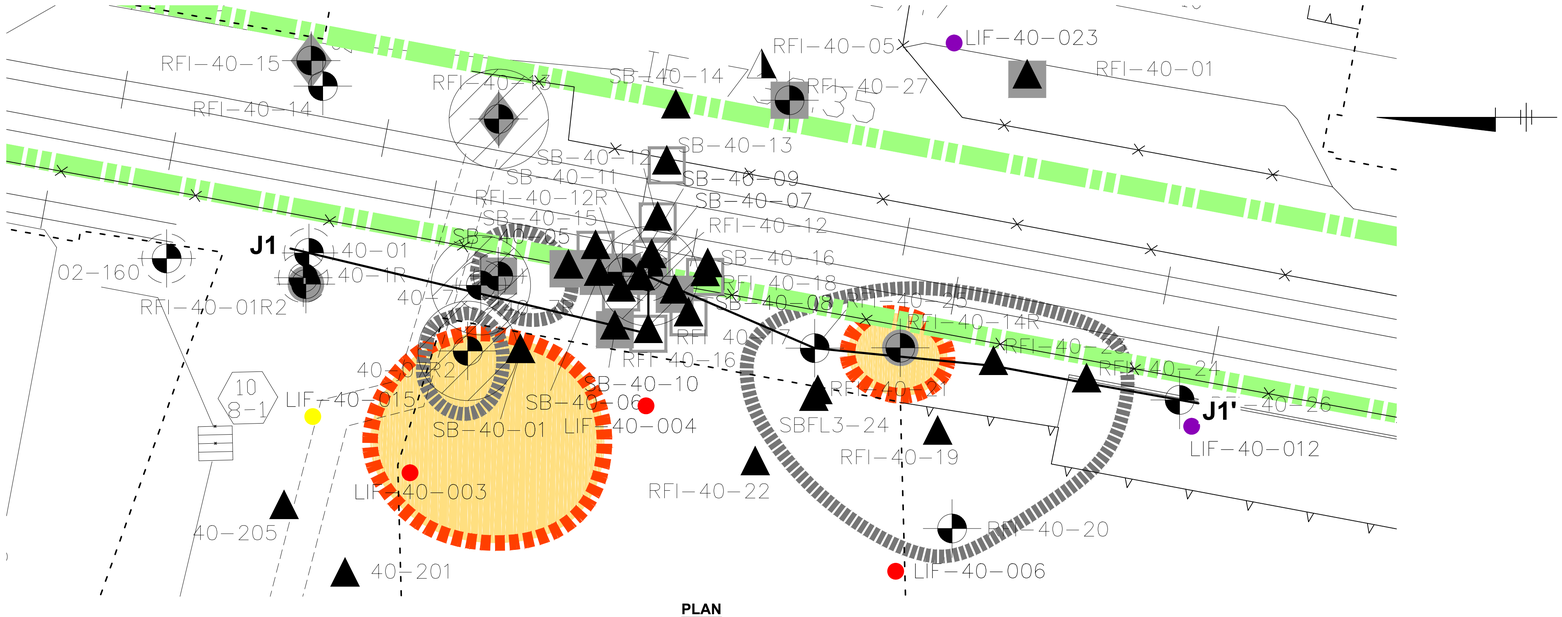
As part of the light non-aqueous phase liquid (LNAPL) remedy evaluation process the Site's 17 LNAPL areas were prioritized based on risk. The Area of Interest (AOI) 40-A, -B, and 16-C Fuel Oil LNAPL Areas (AOI 40-A, -B & 16-C LNAPL Areas) are ranked as Priority #11 with a total potential risk score of 4 (**Table 5 of the main report**). A conceptual site model cross-section is attached (**Figure J-1**) that provides an overview of the AOI 40-A, -B, & 16-C LNAPL Area impacts and interim measures (IMs).

The compositional and saturation concerns identified for the AOI 40-A, -B, and 16-C LNAPL Areas were evaluated in the LNAPL decision tree (**Attachment 2**) and are summarized below:

- Theoretically, there is a potential unacceptable vapor phase exposure risk associated with methane generated from the biodegradation of methane, for future redevelopment scenarios; however, this will be addressed by the proposed institutional controls.
- Surficial soil direct contact exceedances will be addressed separately in **Appendix P**.
- Exceedances of groundwater surface water interface (GSI) and GSI protection (GSIP) criteria for select volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals were identified at the AOI 40-A,-B, & 16-C LNAPL Areas.

- The potential direct groundwater discharge pathway from AOI 40-A, -B, &16-C to the Flint River will be addressed in Appendix BB. Bulkheading activities will be completed at Outfall 009 and 010 to eliminate the GSI storm sewer pathway.
- Based on the current understanding of risk conditions, the potential groundwater volatilization to indoor air (on and off Site) can be effectively mitigated through the institutional controls.
- Bench-scale testing of five technologies was conducted on samples collected from the AOI 40-A, -B, & 16-C area. The results of the testing indicated that: enhanced dissolution and recovery via surfactant resulted in a 62.4% reduction in LNAPL saturation and hot water flushing resulted in a 10.7% reduction in LNAPL saturation; however, these results were limited to the former tunnel within the AOI where sandy backfill was placed. In addition, in-situ thermal remediation may be technically feasible for the area.
- The LNAPL is not migrating and is not infiltrating the Outfall 009 or 010 storm sewers.
- LNAPL transmissivity quantified at monitoring well 40-7R2 ranged from 1.3 to 1.9 square feet per day (ft^2/day), which exceed the Interstate Technology Regulatory Council (ITRC) and Michigan Department of Environmental Quality (MDEQ) draft standard threshold values, which indicates LNAPL recovery may be practicable at this well. However, LNAPL recovery at 40-7R2 would not decrease risk at AOI 40-A, -B, and 16-C.
- Due to poor recovery transmissivity testing was inconclusive at RFI-40-02R and tests were not conducted at RFI-16-08 and LIF-04-004 because there was insufficient LNAPL accumulation.
- Historical IMs completed at the AOI 40-A, -B, & 16-C LNAPL Areas include an LNAPL bailing program.

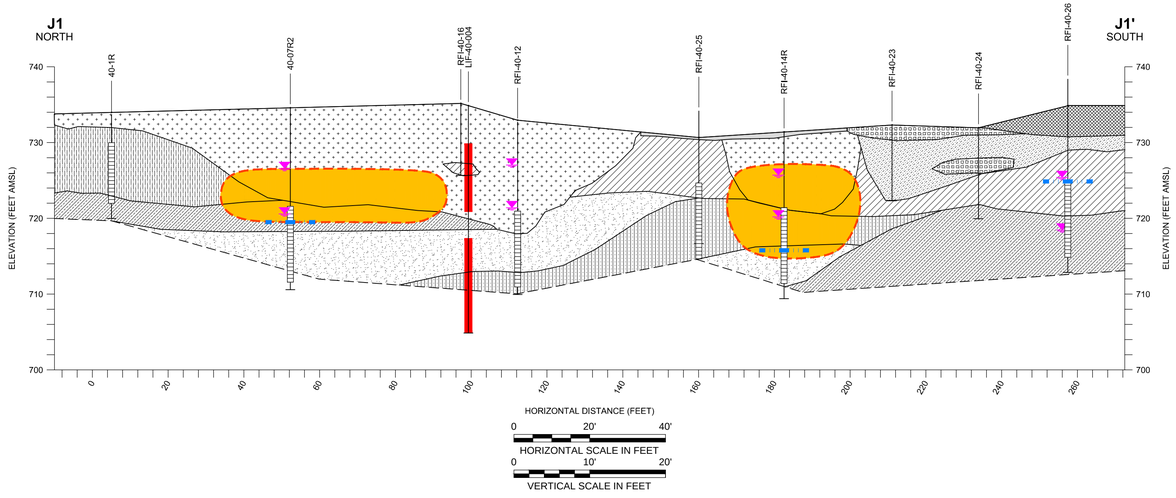
Based on the current understanding of conceptual site model risks associated with the GSI storm sewer pathway and volatilization concerns can be effectively mitigated through engineering and institutional controls.



PLAN

0 20' 40'

GRAPHIC SCALE

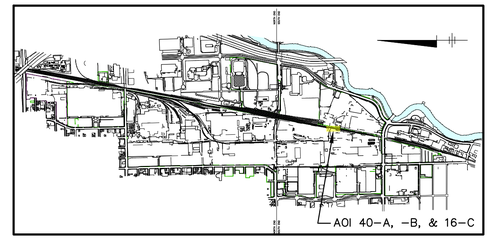


0 20' 40'

HORIZONTAL SCALE IN FEET

0 10' 20'

VERTICAL SCALE IN FEET



SITE MAP

0 2000' 4000'

SCALE IN FEET

AOI 40-A, -B, & 16-C FUEL OIL AREA

KEY LNAPL COMPOSITION AND SATURATION CONCERNS

1) POTENTIAL GSI PATHWAY TO OUTFALL 009 AND 010 STORM SEWERS
2) POTENTIAL GSI PATHWAY VIA GROUNDWATER DIRECT TO THE FLINT RIVER
3) POTENTIAL VOLATILIZATION TO INDOOR AIR CONCERN FOR FUTURE STRUCTURES

COMPLETED INTERIM MEASURES AND RECOMMENDED REMEDIES

R-1) LNAPL BAILING AND RECOVERY (IM COMPLETED)

R-2) OUTFALL 009 AND 010 BULKHEAD INSTALLATION

R-3) INSTITUTIONAL CONTROLS

NOTES:

1. BASE MAP INFORMATION FROM SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.
2. GEOLOGY NOT INTERPRETED FROM LASER INDUCED FLORESCENCE (LIF) BORINGS.
3. BASED ON INFORMATION AVAILABLE AS OF 03/19/14.
4. FILL MATERIAL CONSISTS PRIMARILY OF SILTY SAND UNDERLAIN BY CLAY. SUBSURFACE CONCRETE WAS ENCOUNTERED AT 40-07R2.

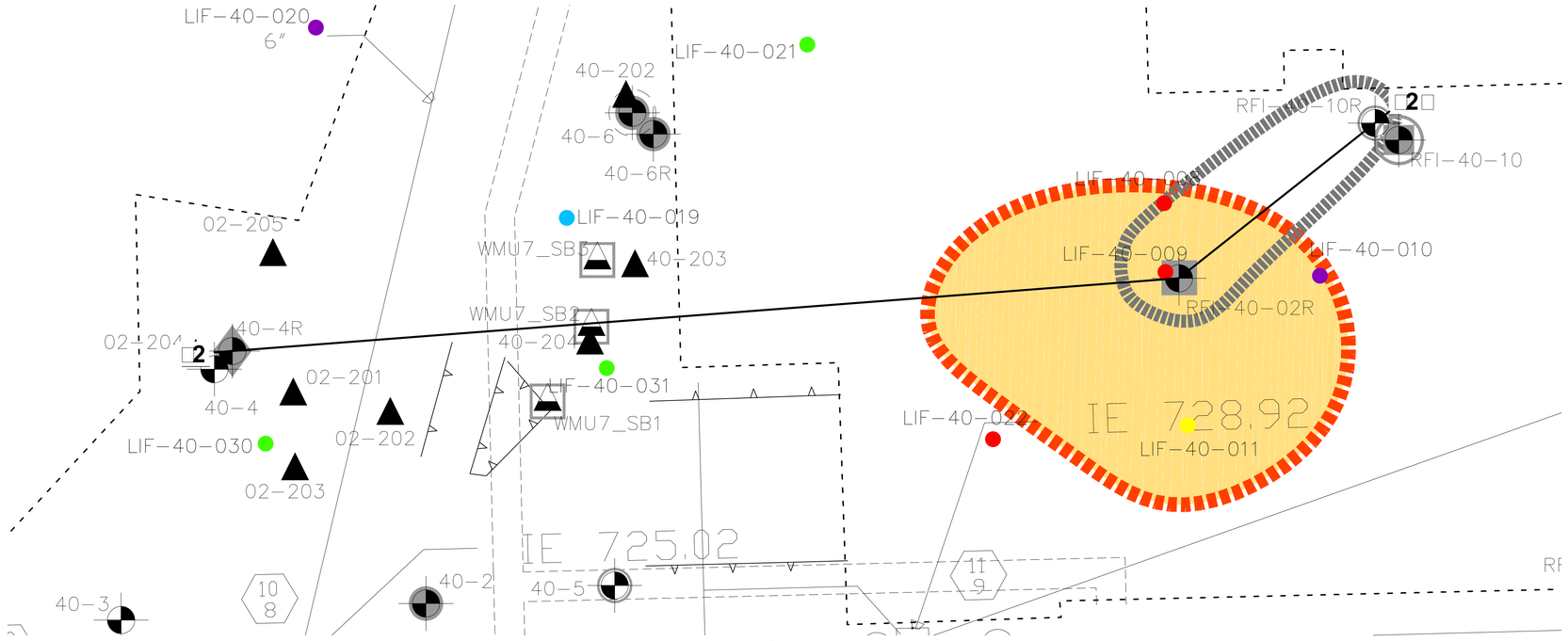
RACER TRUST
BUICK CITY, FLINT, MICHIGAN

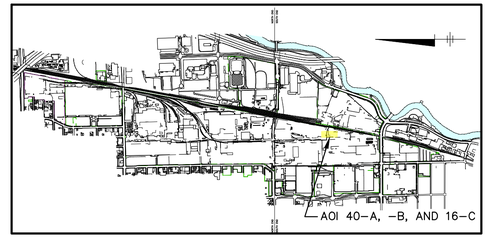
AOI 40-A, -B, AND 16-C CONCEPTUAL SITE MODEL CROSS SECTION J1-J1'

ARCADIS

FIGURE
J-1

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IMAGES: PROJECTNAME: ---- PAGESETUP: ---- PLOTSTYLETABLE: BBL-FULL.CTB PLOTTED: 8/25/2014 10:25 AM BY: SANCHEZ, ADRIAN





SITE MAP

0 2000' 4000'
SCALE IN FEET

AOI 40-A, -B, □ 16-C FUEL OIL AREA

□EY LNAPL COMPOSITION AND SATURATION CONCERNS

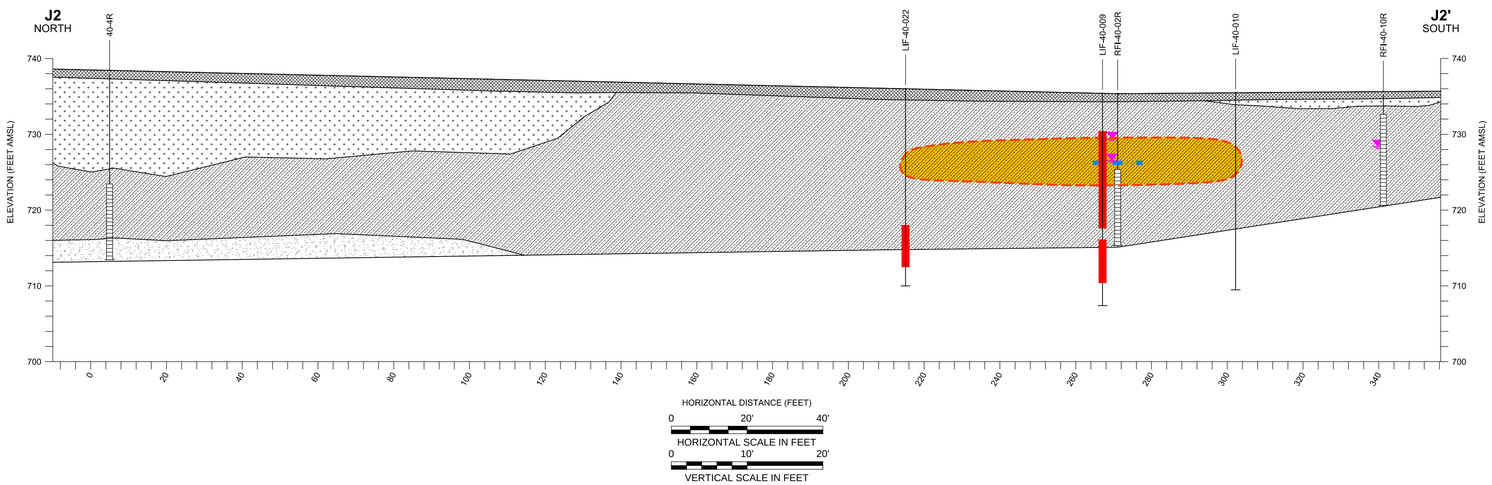
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3) POTENTIAL VOLATILIZATION TO INDOOR AIR CONCERN FOR FUTURE STRUCTURES

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R-3) INSTITUTIONAL CONTROLS



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2. GEOLOGY NOT INTERPRETED FROM LASER INDUCED FLORESCENCE (LIF) BORINGS.
3. BASED ON INFORMATION AVAILABLE AS OF 03/19/14.
4. FILL MATERIAL CONSISTS OF SAND.

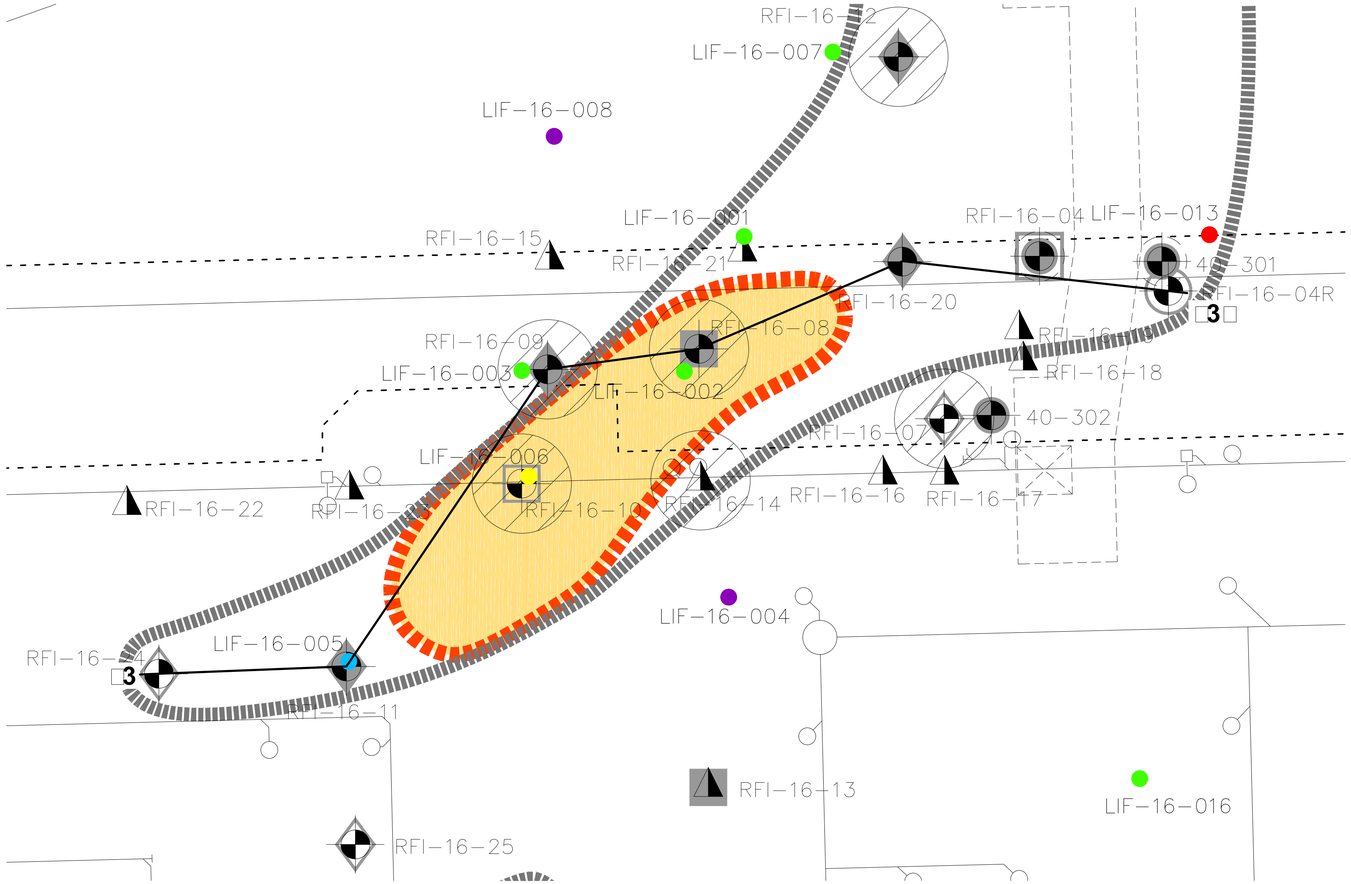
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AOI 40-A, -B, AND 16-C CONCEPTUAL SITE MODEL CROSS SECTION □2-□2□

ARCADIS

FIGURE
□-2

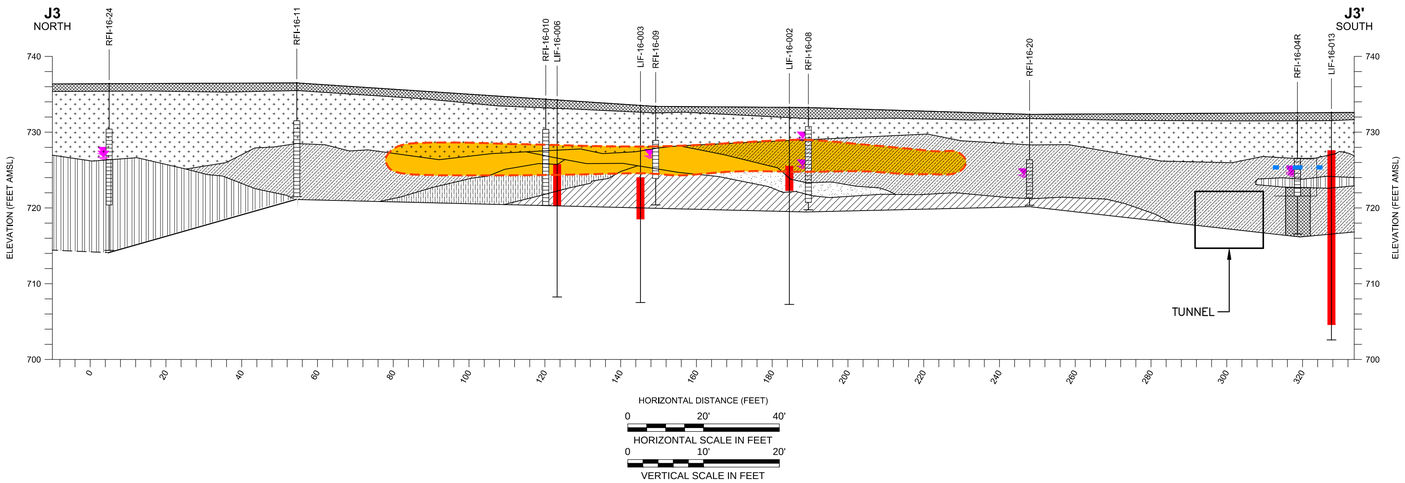
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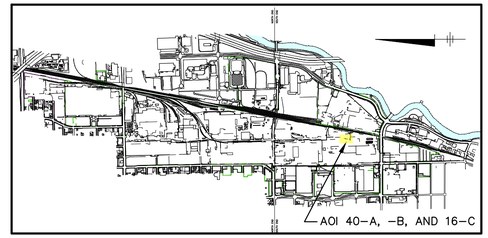


PLAN

0 20' 40'

GRAPHIC SCALE





SITE MAP

0 2000' 4000'

SCALE IN FEET

AOI 40-A, -B, □ 16-C FUEL OIL AREA

□EY LNAPL COMPOSITION AND SATURATION CONCERNS

1) POTENTIAL GSI PATHWAY TO OUTFALL 009 AND 010 STORM SEWERS
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4. FILL MATERIAL CONSISTS OF SAND.

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AOI 40-A, -B, AND 16-C CONCEPTUAL SITE MODEL CROSS SECTION □3-□3□

ARCADIS

FIGURE
□-3

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C:\Users\alsanchez\Desktop\ACTIB0064410\2014000206\Sections\64410V01.DWG LAYOUT: J3-1 SAVED: 8/20/2014 6:38 PM ACADVER: 18.1S (LMS TECH)
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Attachment 1

LNAPL Conceptual Site Model

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Priority #11 - AOI 40-A, -B, and 16-C Fuel Oil LNAPL Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 1 - Conceptual Site Model

This attachment presents a conceptual site model for the area of interest (AOI) 40-A, -B, and 16-C Fuel Oil light non-aqueous phase liquid (LNAPL) Areas (AOI 40-A, -B, & 16-C LNAPL Areas), which are located at the Buick City Site (Site) located in Flint, Michigan (**Figure J1-1**).

1. Background

The AOI 40-A, -B, & 16-C LNAPL Areas are located at the Southend of the Site between former Buildings 16 and 40, and north/northeast of former Building 40. The LNAPL areas are presumably associated with releases from underground storage tanks (USTs) located between former Buildings 16 and 40 (10,000-gallon transmission oil UST, two 10,000-gallon gear oil USTs, a 2,500-gallon diesel UST and a 2,500-gallon LS900 UST) and former Buildings 02 and 40 (10,000-gallon transmission oil UST, and 10,000-, 12,000-, and 16,000-gallon hazardous USTs). Additional information regarding these tank farms is presented in the *Current Conditions Report – South of Leith Street* included in **Appendix Y**. The AOI 40-A and AOI 40-B areas are those located north/northeast of former Building 40. The LNAPL area located between the former Buildings 16 and 40 is the AOI 16-C LNAPL area. LNAPL associated with the AOI 40-A, -B, & 16-C LNAPL Areas have accumulated to measurable thicknesses in five monitoring wells (**Figure J1-2**).

The AOI 40-A, -B, & 16-C LNAPL Areas investigation data including, but not limited to soil boring logs, monitoring well logs, laser induced fluorescence (LIF) logs, and analytical data previously presented in Site reports are not re-presented in this memo. However, pertinent AOI 40-A, -B & 16-C investigation data that has not previously been presented in a Site report is attached.

2. Former Interim Measures - LNAPL Monitoring and Bailing Program

During the Site-wide LNAPL monitoring program conducted from 2003 through 2005, a total of approximately 3.4 gallons of LNAPL was recovered during quarterly monitoring and bailing events completed at 18 monitoring wells in the former Building 40 and 16 area.

3. AOI 40-A, -B, & 16-C LNAPL Area Site Setting and Data Summary

This section provides a summary of the geology, hydrogeology, analytical data, and LNAPL characteristics and extent of impacts for the AOI 40-A, -B, & 16-C LNAPL Areas. **Figure J1-2** presents the locations of the existing and abandoned monitoring wells and soil borings in the AOI 40-A, -B, &16-C LNAPL Areas.

3.1 Geology and Hydrogeology

- *Geology*: Soil boring and monitoring well logs in the vicinity of the AOI 40-A, -B, & 16-C LNAPL Areas indicate that the soils are primarily Silts and Clays down to approximately 22 feet below ground surface (bgs). The boring logs also indicated visual evidence of impact from 7 to 15 feet bgs.

- *Groundwater/LNAPL Levels:* Twenty-five monitoring wells at the AOI 40-A, -B, & 16-C areas are gauged to monitor the extent of the LNAPL. A summary of the groundwater and LNAPL data for each area is provided below.

    - The AOI 40-A LNAPL Area has been monitored by 11 monitoring wells (40-01R2, 40-06R, 40-07R2, 40-7, RFI-40-12R, RFI-40-13, RFI-40-14R, RFI-40-20, RFI-40-25, RFI-40-26, and RFI-40-27). Depth to groundwater (or LNAPL, where present) at AOI 40-A is approximately 6 to 7 feet bgs. LNAPL has been consistently measured at 40-07R2, RFI-40-12R, and RFI-40-14R and intermittently at RFI-40-25 and RFI-40-26.
    - The AOI 40-B LNAPL Area has been monitored by three monitoring wells (RFI-40-02, RFI-40-03, and RFI-40-10R). Depth to groundwater (or LNAPL, where present) is approximately 6 to 7 feet bgs. LNAPL has been consistently measured at RFI-40-02 and intermittently at RFI-40-03 and RFI-40-10R.
    - The AOI 16-C LNAPL Area has been monitored by eleven monitoring wells (40-302, 40-303R, 40-304, 40-305, RFI-16-04R, RFI-16-07, RFI-16-08, RFI-16-09, RFI-16-10, RFI-16-20, and RFI-16-24. Depth to groundwater (or LNAPL, where present) ranges from 8 to 10 feet bgs. LNAPL has been consistently measured at RFI-16-08 and RFI-16-10 and intermittently at 40-303R, 40-304, 40-305, RFI-16-04R, RFI-16-09, RFI-16-20, and RFI-16-24.

Based on historic fluid level gauging data, groundwater flow in this portion of the Site is generally to the east and southeast. A summary of groundwater level data collected at AOI 40-A, -B and 16-C is presented in **Appendix X**. Logs for recently complete soil borings and monitoring wells are attached.

3.2 Groundwater and Soil Analytical Data

Analytical data were compared to applicable Michigan Part 201 non-residential criteria.

3.2.1 Groundwater Analytical Data

Groundwater samples collected from fifteen wells located in the AOI 40-A, -B, & 16-C LNAPL Areas exhibited concentrations of several volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals exceeding groundwater/surface water interface (GSI) criteria. The VOCs detected above criteria were benzene (210-5,500/200 ug/L), ethylbenzene (61-800/18 ug/L), isopropylbenzene (36-74/28 ug/L) and xylenes (84-230/41 ug/L). The SVOCs detected above criteria were 2-methylnaphthalene (53.2/19 ug/L) and naphthalene (89.4/11 ug/L). The metals detected above criteria were arsenic (11-200/10 ug/L), beryllium (44-190/32 ug/L), copper (26-100/22 ug/L), cyanide (6.8-440/5.2 ug/L), mercury (0.119-0.121/0.0013 ug/L), selenium (11-180/5 ug/L) and silver (0.29-2.0/0.06 ug/L). The dissolved phase plumes continue offsite to the adjacent CSX property (which bisects the Site) as shown on **Figure J1-3.** Groundwater analytical data is presented in **Appendix X.**

3.2.2 Soil VOC, SVOC, and Metals Analytical Data

Soil samples collected from twenty-one locations in the AOI 40-A, -B, & 16-C LNAPL Area detected several VOCs, SVOCs and metals at concentrations that exceed groundwater/surface water interface protection (GSIP) criteria. The VOCs detected above criteria were 1,2,4-trimethylbenzene (0.65/0.57 mg/kg), ethylbenzene (0.7-3.9/0.36 mg/kg) and xylenes (0.86-1.3/0.82 mg/kg). The SVOCs detected above criteria were carbazole (1.68-10.7/1.1 mg/kg), dibenzofuran (4.93/1.7 mg/kg), fluoranthene (15.2-105/5.5 mg/kg), fluorene (7.1/5.3 mg/kg), naphthalene (0.75-3.54/0.73 mg/kg) and phenanthrene (10.3-77.1/2.1 mg/kg). The metals that were detected above criteria include arsenic (5.9-14/4.6 mg/kg), cobalt (7.1-13/2 mg/kg), cyanide (0.5-2.6/0.1 mg/kg), manganese (500-1,300/98 mg/kg), mercury (0.14/0.05 mg/kg), selenium (0.43-0.54/0.4 mg/kg), silver (1.5-2.3/0.1 mg/kg) and zinc (760/280 mg/kg).

In addition, benzo(a)pyrene was detected above non-residential direct contact (8.71-35.8/8 mg/kg) criteria. The benzo(a)pyrene exceedances occur in surface soils and are not related to the LNAPL impacts in the AOI 40-A, -B, and 16-C LNAPL Areas. These exceedances are addressed separately in **Appendix P**.

3.2.3 GSI Evaluation

As discussed in further detail in **Appendix BB**, GSI exceedances in the Site storm sewers are being evaluated by the ongoing NPDES Plus Monitoring Program (NPMP). The AOI 40-A, -B, and 16-C LNAPL Areas are serviced by the Outfall 009 and 010 storm sewers. In order to eliminate the GSI storm sewer pathway at AOI 40-A, -B, and 16-C, the Outfall 009 and 010 storm sewers will be bulkheaded at the property boundary. The potential direct groundwater discharge pathway from AOI 40-A, -B, &16-C to the Flint River will be addressed in **Appendix BB**.

3.2.4 Soil PCB Analytical Data

Seventy-nine soil samples were analyzed for polychlorinated biphenyls (PCBs) and two samples exhibited PCB concentrations greater than 1 part per million (ppm) (RFI-16-04,4 to 6 ft. bgs [1.13 mg/kg];RFI-40-12,0 to 2 ft. bgs [1.12 mg/kg]).

Because the detection of PCBs at RFI-40-12 is co-located with the surface soil benzo(a)pyrene impacts discussed above, this PCB impact will be addressed in the AOI 40-A soil memo presented in **Appendix P**.

3.2.5 Vapor Intrusion Evaluation

Due to the presence of shallow groundwater and LNAPL (approximately 6 to 8 feet below ground surface) at AOI 40-A, -B & 16-C, groundwater data were also compared to the applicable Non-Residential Screening Values For the Vapor Intrusion Pathway presented in the *Michigan Department of Environmental Quality (MDEQ) Guidance Document for the Vapor Intrusion Pathway* (further discussed in Section 3.4 of the Report). Groundwater data at four locations (RFI-40-03, RFI-40-09, RFI-40-10R, and RFI-40-15) exceed applicable volatilization to indoor air screening levels.

As there are no structures at the Site the MDEQ Part 201 criteria are appropriate for comparison of soil data. Soil concentrations did not exceed applicable screening levels.

3.3 LNAPL Characteristics

- *LNAPL Analytical Data:* LNAPL present at AOI 40-A, -B, & 16-C LNAPL Areas consists primarily of fuel oil. Additional analysis indicate that:
    - Concentrations of benzene exceed TCLP criteria at RFI-40-14R; however, TCLP analysis has not been conducted.
    - Concentrations of arsenic and lead exceed TCLP criteria at RFI-16-10; however, TCLP analysis has not been conducted.

  - The LNAPL sample collected from RFI-40-02R has a viscosity of 60.56 centipoise and a specific gravity of 0.896, while the LNAPL at RFI-16-10 has an interfacial tension of 18 dynes/centimeter, a viscosity of 2.7 centipoise, and a specific gravity of 0.86.
  - PCBs have not been detected in the LNAPL samples collected from the AOI 40-A, -B, &16-C areas.

- *LIF Data:* Fifty-three laser-induced fluorescence (LIF) borings were completed in the AOI 40-A, -B, &16-C LNAPL Areas. The LIF response in these areas is consistent with the known LNAPL type, fuel oil. The vertical range of LIF impact (greater than 5%) at the AOI 40-A and 40-B Areas is 5 to 30 feet bgs at the north end of the areas and 5 to 18 feet bgs at the south end of the areas. The vertical range of impacts at the AOI 16-C area is 8.5 to 11.5 feet bgs in the northern portion of the area and 5 to 24 feet bgs in the southern portion of the area. **Figure J1-2** presents the results of the LIF investigation and the extent of impacts associated with the AOI 40-A, -B, & 16-C LNAPL Areas.

- *Transmissivity:* An LNAPL transmissivity study was completed at the AOI 40-A, -B, & 16-C LNAPL Areas, which consisted of completing four quarters of baildown testing at four monitoring wells (RFI-40-7R2, RFI-16-08, RFI-40-02R and LIF-04-004). Based on LNAPL baildown test results, LNAPL transmissivities quantified at monitoring well RFI-40-7R2 ranged from 1.3 to 1.9 square feet per day (ft^2/day), which is above minimum range suggested by ITRC and the MDEQ standard threshold value, indicating that LNAPL recovery may be practicable at this well. Due to poor recovery during the baildown tests, transmissivity results were inconclusive at RFI-40-02R. Transmissivity tests were not conducted at RFI-16-08 and LIF-04-004 because there was insufficient LNAPL accumulation in the monitoring wells during the course of the study.

- *Natural Source Zone Depletion (NSZD):* An NSZD study was conducted at five locations (LIF-16-006, LIF-16-017, LIF-40-004, LIF-40-01, LIF-40-022) that are located in the AOI 40-A, -B, and 16-C LNAPL Areas. The testing completed indicated that NSZD is occurring; however, the currently available testing technologies cannot reliably quantify the depletion beneath a concrete slab.

3.4 Extent of LNAPL

During the Remedial Cost Estimate Summary (RCES) preparation, the AOI 40-A, -B, & 16-C LNAPL Areas was calculated based on historical data. The footprint of the LNAPL area containing approximately 0.5 ft or greater of LNAPL was estimated to be approximately 8,200 square feet. Based on recent field work, the footprint of these LNAPL Areas has been updated (as discussed in Section 2.1.3 of the main report) and is now approximately 16,000 square feet. The boring and LIF logs indicated the depth of impacts to at the AOI 40-A Area is 5 to 30 feet bgs and 5 to 18 feet at the AOI 40-B area. The vertical range of impacts at the AOI 16-C area is 8.5 to 11.5 in the northern portion of the area and 5 to 24 feet bgs in the southern portion of the area.

ARCADIS

Boring Logs

Date Start: 9/17/13
Date Finish: 9/17/13
Drilling Company: Cascade
Driller's Name: Ralph Winn, Jason Greve
Drilling Method: Sonic
Sampling Method: 4" ten foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: 560786.73
Easting: 13305749.82
Casing Elevation: 735.99

Borehole Depth (ft. bgs.): 15.0' bgs
Surface Elevation: 735.97

Descriptions By: D.Shaw

Well/Boring ID: **MW-40-03**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny 70

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 735	1	0.0-5.0	4.0	NA 1.0 1.0 4.0 4.0			CONCRETE. SAND, very fine to coarse; some clay; little granules to large pebbles, subround to suubangular; poorly sorted; dry; very dark brown (10YR 3/3).		(1.0-2.0' bgs) Sand K&E #2 (0.5-5.0') 2" Sch 40 PVC Well Casing (2.0-4.0' bgs) Bentonite
5 / 730	2	5.0-15.0	7.33	3.5 4.0 2.1 4.0 3.6 2.5					(4.0-20.0' bgs) Sand K&E #2 (5.0-15.0') 2" Sch 40 PVC 0.010 Slot Well Screen
10 / 725				2.0 2.0 1.5			SAND, fine to very coarse, subround; trace granules; poorly sorted; wet; brown (10YR 4/3). Note: Black staining from 14.0 to 14.5' bgs with moderate odor.		
15 / 720				2.5			CLAY, high plasticity, no dilatency; dry; stiff; dark gray (10YR 4/1). Note: End of boring at 15.0' bgs.		

Remarks: bgs = below ground surface
btoc = below top of casing

Hand auger to 5.0' bgs.

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Date Start: 9/17/13
Date Finish: 9/17/13
Drilling Company: Cascade
Driller's Name: Ralph Winn, Jason Greve
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: 561629.34
Easting: 13305920.74
Casing Elevation: NA

Borehole Depth (ft. bgs.): 10.0' bgs
Surface Elevation: NA

Descriptions By: D.Shaw

Well/Boring ID: **SB-40-01**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny 70

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
				NA			CONCRETE.		(0.0-0.8' bgs) CONCRETE
				367			SAND, fine to coarse, subround; little silt; little clay; little granules to small pebbles, subangular; poorly sorted; moist; black (10YR 2/1).		
	1	0.0-5.0	4.0	634			Note: Debris, nails, and metal from 0.8 to 9.1' bgs. Moderate odor from 0.8 to 9.1' bgs.		
				300					
				351					
5 / -5				30.0					(0.8-10.0' bgs) Bentonite
				35.1					
	2	5.0-10.0	4.0	25.0					
				30.4					
				0.5			CLAY, high plasticity, no dilatency; dry; very stiff; light gray.		
10 / -10							Note: End of boring at 10.0' bgs.		
15 / -15									

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Remarks: bgs = below ground surface

Hand auger to 5.0' bgs.

SB-40-01 (1-3) collected at 1225
SB-40-01 (3-5) collected at 1230

Date Start: 9/17/13
Date Finish: 9/17/13
Drilling Company: Cascade
Driller's Name: Ralph Winn, Jason Greve
Drilling Method: Sonic
Sampling Method: 4" ten foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: 561543.13
Easting: 13305599.10
Casing Elevation: NA

Borehole Depth (ft. bgs.): 20.0' bgs
Surface Elevation: NA

Descriptions By: D.Shaw

Well/Boring ID: **SB-40-02**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny 70

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
				NA			CONCRETE.		(0.0-0.8' bgs) CONCRETE
				1.5			SAND, fine to medium, subround; well sorted; trace granules to small pebbles, subround; dry; yellowish brown (10YR 5/4).		
	1	0.0-5.0	4.0	1.5					
				2.0					
5 / -5				2.1					
				5.0					
				5.1					
	2	5.0-10.0	4.0	230			CLAY, high plasticity, no dilatency, dry; very stiff; grayish brown (2.5Y 5/2).		
				231					
10 / -10				225					
				50.1			SAND, fine to medium, well sorted; moist; yellowish brown (10YR 5/6).		(0.8-20.0' bgs) Bentonite
				1500			CLAY, high plasticity, no dilatency; dry; hard; dark grayish brown (10YR 4/2).		
	3	10.0-15.0	4.0	1300			SAND, very fine, and SILT; well sorted; moist; gray (10YR 5/1).		
				250			SAND, fine to very coarse, subangular; some granules to small pebbles, subround; poorly sorted; moist; gray (10YR 5/1).		
15 / -15				125					
				13.8			CLAY, high plasticity, no dilatency; dry; hard; gray (10YR 5/1).		
				2.5					
	4	15.0-20.0	5.0	0.3					
				0.0					
20 / -20				0.0			Note: End of boring at 20.0' bgs.		

Remarks: bgs = below ground surface

Hand auger to 5.0' bgs.

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Date Start: 9/18/13
Date Finish: 9/18/13
Drilling Company: Cascade
Driller's Name: Ralph Winn, Jason Greve
Drilling Method: Hand Auger
Sampling Method: Hand Auger
Rig Type: None
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: 560867.00
Easting: 13305617.82
Casing Elevation: NA

Borehole Depth (ft. bgs.): 5.0' bgs
Surface Elevation: NA

Descriptions By: D.Shaw

Well/Boring ID: **SB-40-04**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny 75

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0.0-5.0	3.33	2.0 2.0 2.0 2.0 2.0			SAND, fine to coarse, subround; some granules to small cobbles, subangular; poorly sorted; dry; brown (10YR 5/3). Note: Fill sand from 0.0 to 5.0' bgs. Note: Concrete at 5.0' bgs. Note: End of boring at 5.0' bgs.		(0.0-5.0' bgs) Bentonite
5 / -5									
10 / -10									
15 / -15									

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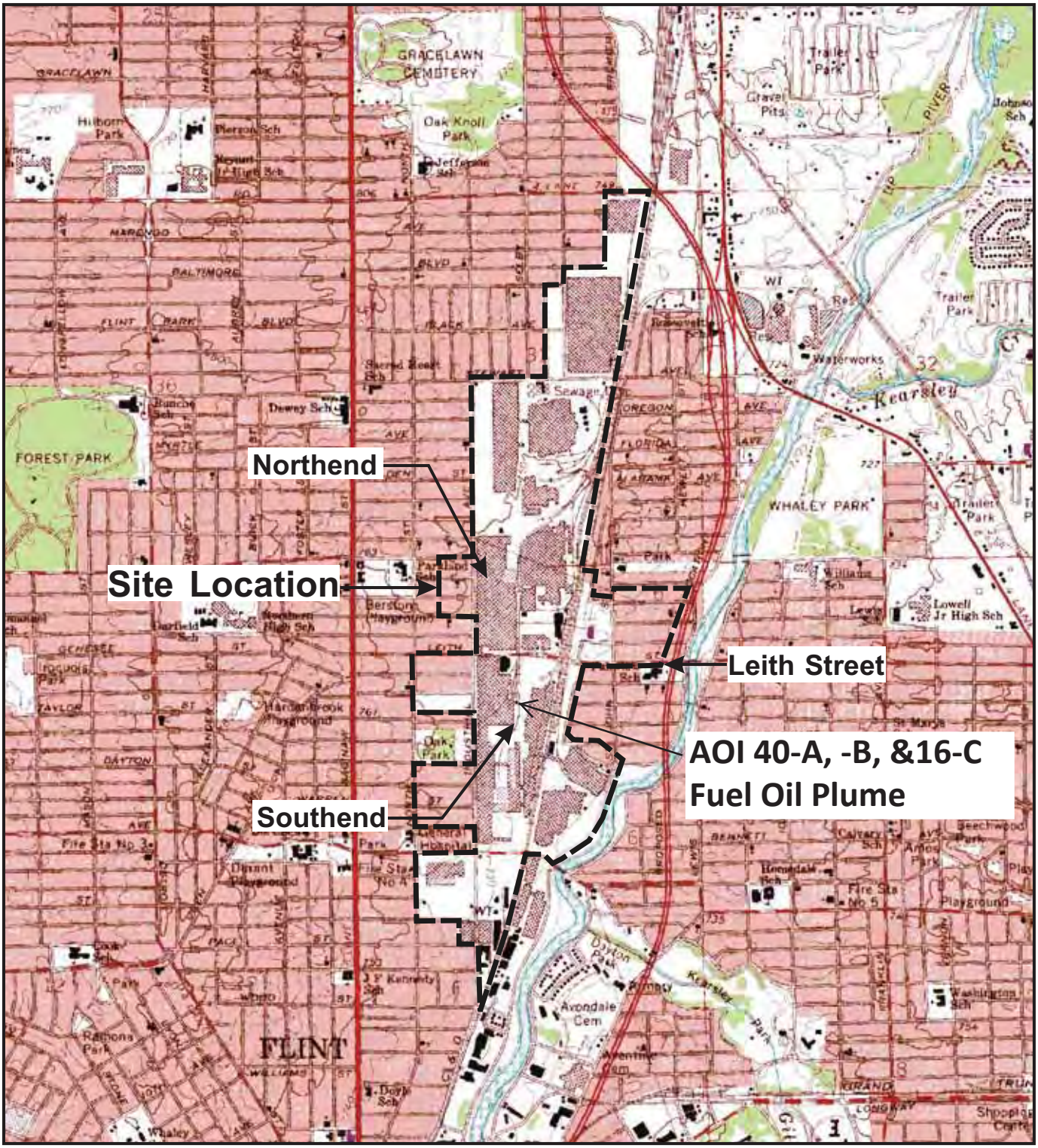
Remarks: bgs = below ground surface

Hand auger to 5.0' bgs.

Hit refusal at 5.0' bgs on three separate attempts.

ARCADIS

Figures



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quad., Flint North, Mich. (1969, Photorevised 1975).

2000' 0 2000'

Approximate Scale: 1" = 2000'



Area Location

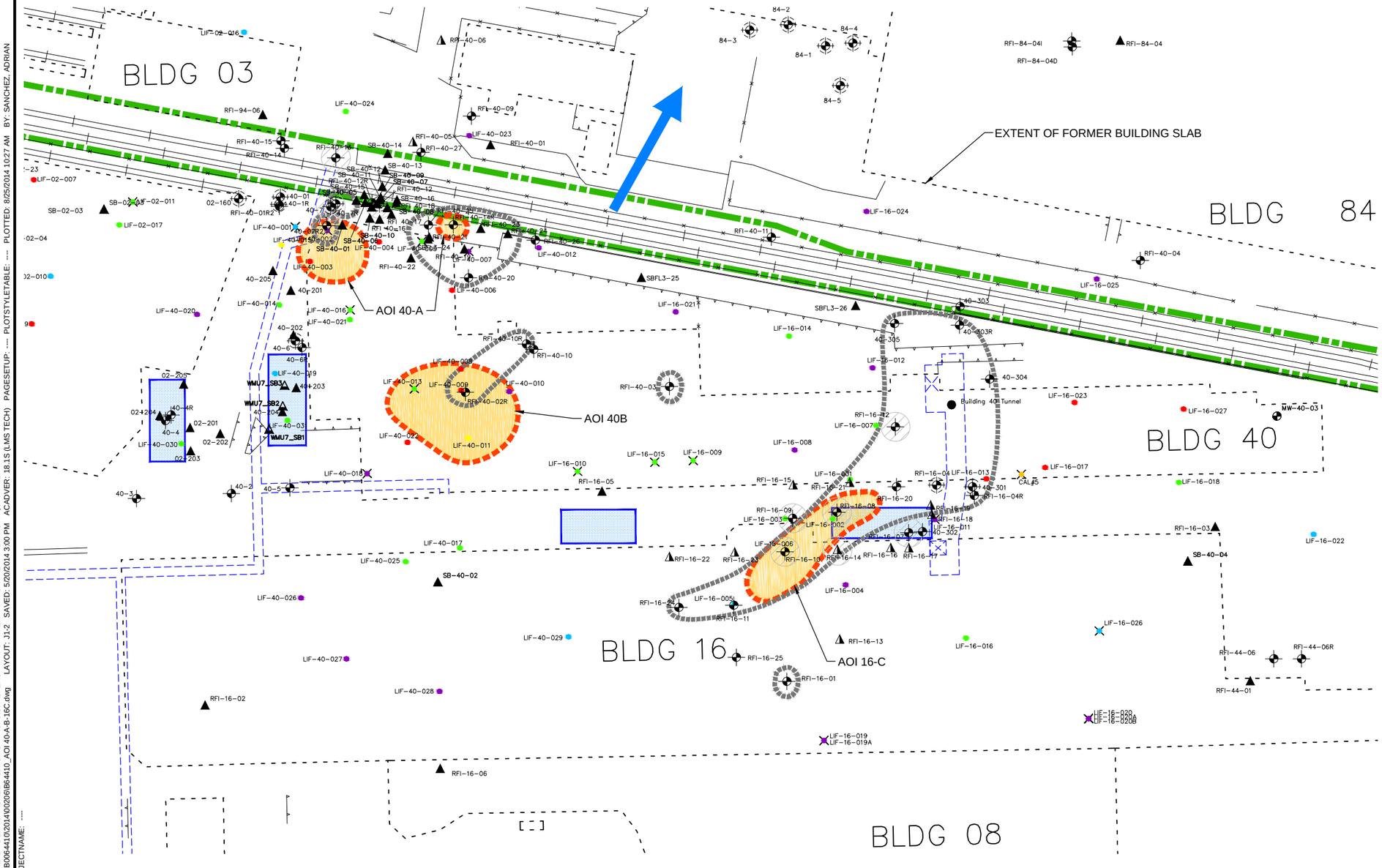
RACER TRUST
BUICK CITY, FLINT, MICHIGAN

SITE LOCATION MAP

ARCADIS

FIGURE
J1-1

03/12/2012 SYRACUSE, NY-ENV/CAD-141-DJHOWES
B0064410/2012/01202/CDR/64410N01.CDR



NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AREAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

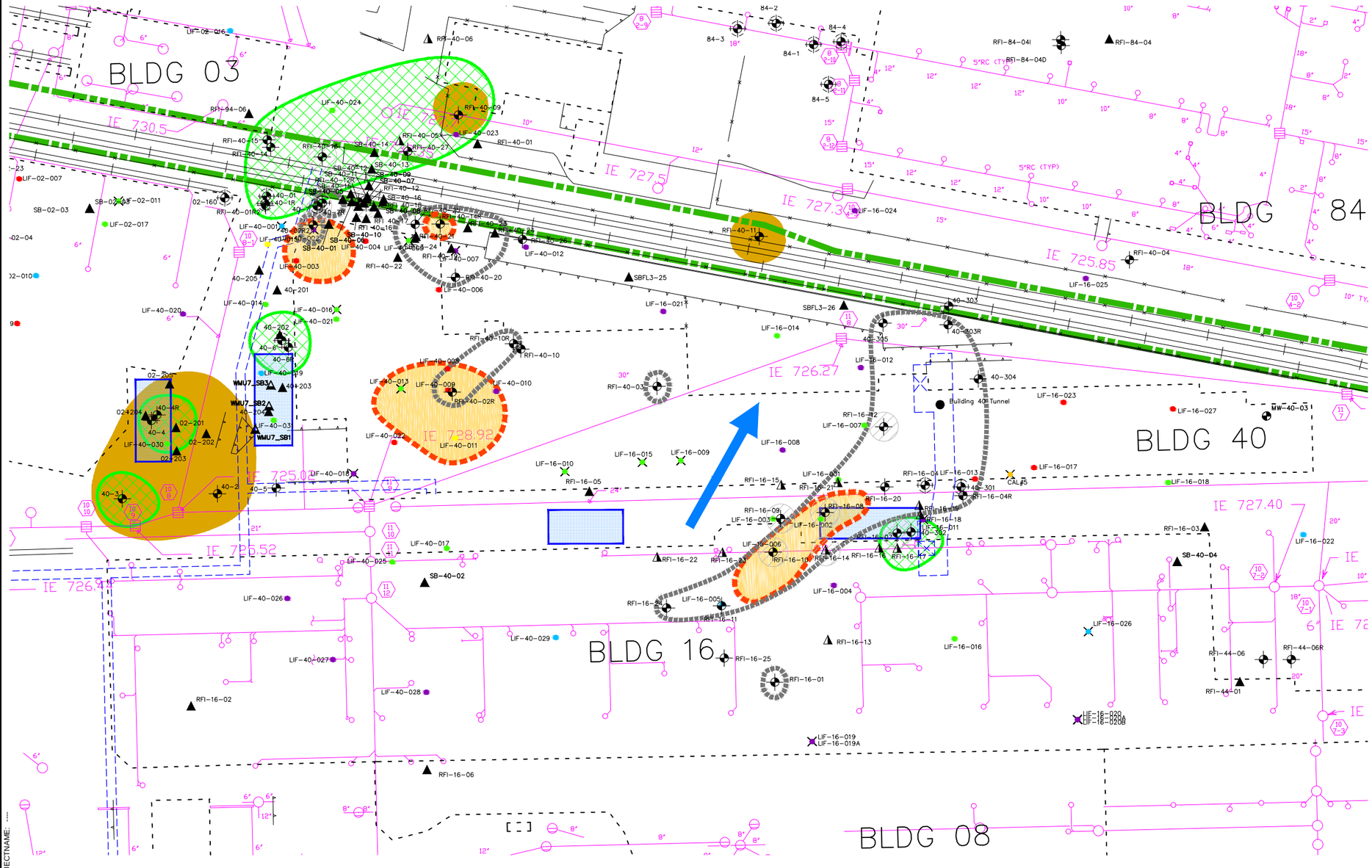
RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 40-A, -B, -16-C INVESTIGATION LOCATIONS AND LNAPL E□TENTS

ARCADIS

FIGURE
□1-2

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
C:\Users\alsanchez\Desktop\ACTIB0064410\20140020\IB64410_AOI 40-A-B-16C.dwg LAYOUT: J1:2 SAVED: 5/20/2014 3:00 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 8/25/2014 10:27 AM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME: ----



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- STORM SEWER LINE
- GENERAL GROUNDWATER FLOW DIRECTION
- ESTIMATED AREA WHERE INORGANICS EXCEED MICHIGAN PART 201 GSI CRITERIA
- APPROXIMATE LOCATION OF FORMER UST
- ESTIMATED AREA WHERE VOCs AND/OR SVOCs EXCEED GSI CRITERIA

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200
- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.. AREAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 50' 100'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 40-A, -B, -16-C
DISSOLVED PHASE PLUMES

ARCADIS

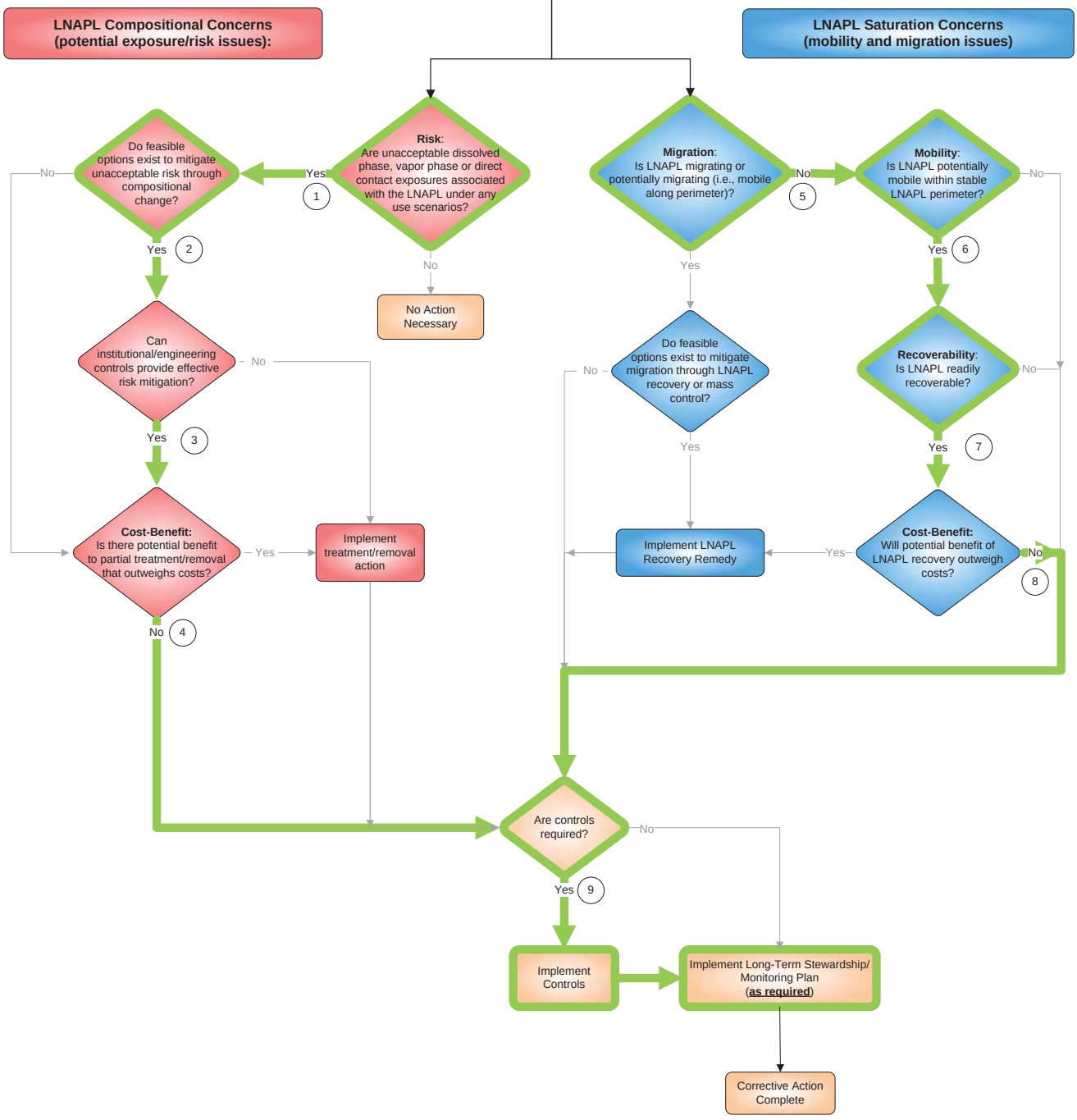
FIGURE
1-3

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
C:\Users\alsanchez\Desktop\ACTIB0064410\2014\00206\B64410_AOI 40-A-B-16C.dwg LAYOUT: J1-3 SAVED: 5/20/2014 3:00 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 8/25/2014 10:35 AM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME: ----

Attachment 2

LNAPL Remedial Decision Tree

Attachment 2 LNAPL Remedial Decision Tree
Priority #11 – AOI 40-A, -B, & 16-C (Fuel Oil Area)



NOTES

(#) NOTES: See Page J2-2

Please see Appendix W for the LNAPL Remedial Decision Tree Template that lists additional sources of pertinent information used in the evaluation of the decision points (i.e. tables).

Attachment 2 Notes

Priority #11 - AOI 40-A, -B, & 16-C Fuel Oil LNAPL Areas

Background: The area of interest (AOI) 40-A, -B, & 16-C light non-aqueous phase liquid (LNAPL) Areas are located at the Southend of the Site between former Buildings 16 and 40, and north/northeast of former Building 40. The AOI 40-A, -B &16-C LNAPL Areas are located adjacent to CSX property that bisects this portion of the Site. The LNAPL plumes are presumably associated with releases from underground storage tanks located between former Buildings 16 and 40 and former Buildings 02 and 40. The AOI 40-A and AOI 40-B areas are those located north/northeast of former Building 40. The LNAPL area located between the former Buildings 16 and 40 is the AOI 16-C area. There are currently no buildings within the AOI 40-A, -B, & 16-C LNAPL Areas.

Geology and Hydrogeology: The soils at AOI 40-A, -B, and 16-C consist of primarily Silts and Clays to a depth of approximately 22 feet bgs. Depth to groundwater at the AOI 40-A and 40-B areas is approximately 6 to 7 feet bgs and at the AOI 16-C area the depth to groundwater ranges from 8 to 10 feet bgs. Based on historic fluid level gauging data, groundwater flow in this portion of the Site is generally to the east and southeast.

LNAPL Characteristics: The boring and LIF logs indicated the depth of impacts to at the AOI 40-A area is 5 to 30 feet bgs and 5 to 18 feet at the AOI 40-B area. The vertical range of impacts at the AOI 16-C area is 8.5 to 11.5 feet bgs in the northern portion of the LNAPL area and 5 to 24 feet bgs in the southern portion of the LNAPL area.

- The AOI 40-A LNAPL Area has been monitored by 11 monitoring wells (40-01R2, 40-06R, 40-07R2, 40-7, RFI-40-12R, RFI-40-13, RFI-40-14R, RFI-40-20, RFI-40-25, RFI-40-26, and RFI-40-27). Depth to groundwater (or LNAPL, where present) at the AOI 40-A is approximately 6 to 7 feet bgs. LNAPL has been consistently measured at 40-07R2, RFI-40-12R, and RFI-40-14R and intermittently at RFI-40-25 and RFI-40-26. The LNAPL sample collected from the AOI 40-A area detected benzene at a concentration that exceeds the RCRA toxicity characteristic at one location (RFI-40-14R); however, TCLP analysis has not been conducted. The LNAPL sample collected from RFI-40-02R has a viscosity of 60.56 centipoise and a specific gravity of 0.896,
- The AOI 40-B LNAPL Area has been monitored by three monitoring wells (RFI-40-02, RFI-40-03, and RFI-40-10R). Depth to groundwater (or LNAPL, where present) is approximately 6 to 7 feet bgs. LNAPL has been consistently measured at RFI-40-02 and intermittently at RFI-40-03 and RFI-40-10R.
- The AOI 16-C LNAPL Area has been monitored by eleven monitoring wells (40-302, 40-303R, 40-304, 40-305, RFI-16-04R, RFI-16-07, RFI-16-08, RFI-16-09, RFI-16-10, RFI-16-20, and RFI-16-24. Depth to groundwater (or LNAPL, where present) ranges from 8 to 10 feet bgs. LNAPL has been consistently measured at RFI-16-08 and RFI-16-10 and intermittently at 40-303R, 40-304, 40-305, RFI-16-04R, RFI-16-09, RFI-16-20, and RFI-16-24. At AOI 16-C the LNAPL contains arsenic and lead at concentrations that exceed the RCRA toxicity characteristic at two locations (RFI-16-04 and RFI-16-10); however, TCLP analysis has not been conducted. The LNAPL collected from RFI-16-10 has a viscosity of 2.7 cp, interfacial tension of 18 dynes/cm, and a specific gravity of 0.86.
- PCBs have not been detected in the LNAPL samples collected from the AOI 40-A, -B, &16-C areas.

1) *Are unacceptable dissolved phase, vapor phase, or direct contact exposures associated with the LNAPL under any use scenarios?*

YES – The following potential risk/exposure concerns are associated with the AOI 40-A, -B, & 16-C a:

- Groundwater/surface water interface (GSI): Exceedances of GSI and GSI Protection (GSIP) criteria for select volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals were identified at the AOI 40-A, -B, & 16-C LNAPL Areas. The GSI storm sewer pathway is addressed herein; however, the potential direct groundwater discharge pathway from AOI 40-A, -B, &16-C to the Flint River will be addressed in **Appendix BB**.
- Direct Contact – Seven soil samples collected from the AOI 40-A, -B, &16-C areas exceeded non-residential direct contact criteria for benzo(a)pyrene in surface soils; however these exceedances are in surficial soils and not related to LNAPL, and will be addressed separately in **Appendix P**.
- Potential Groundwater Volatilization to Indoor Air Concern at the Property Boundary: Groundwater data from four locations (RFI-40-03, RFI-40-09, RFI-40-10R, and RFI-40-15) exceed applicable vapor intrusion screening levels. On Site concerns will be addressed by institutional controls. Additional evaluation will be completed for off Site receptors in accordance with the MDEQ's *Guidance Document for the Vapor Intrusion Pathway.* However, as two of the locations (RFI-40-03 and RFI-40-10R) are more than 100 feet from the property boundary and the adjacent CSX property consists of rail road tracks, which are highly unlikely to be replaced by an occupiable structure in the foreseeable future, it is likely that institutional controls will also be recommended as the off Site remedy.
- Potential Volatilization to Indoor Air Concerns for Future Structures: Theoretically, there is a potential unacceptable vapor phase exposure risk associated with methane for future redevelopment scenarios; however, this will be addressed by the proposed institutional controls.

2) *Do feasible options exist to mitigate unacceptable risk through compositional change?*

YES – The following is a general discussion regarding the feasibility of various compositional change remediation strategies for the AOI 40-A, -B & 16-C LNAPL Areas:

- Bench-scale testing of five technologies was conducted on samples collected from the AOI 40-A, -B, & 16-C LNAPL Areas. The results of the testing were presented in the *LNAPL Remediation Technology Bench-Scale Testing Report (*ARCADIS, 2012b*).* Based on the results of the bench-scale testing the following observations are made:
  - At one location (LIF-40-004) the enhanced dissolution and recovery via surfactant resulted in a 62.4% reduction in LNAPL saturation and hot water flushing resulted in a 10.7% reduction in LNAPL saturation; however this testing was conducted in an area of uniform sand backfill that is not consistent with the rest of the AOI 40-A, -B, & 16-C LNAPL Areas.
  - AOI 40-A, -B, & 16-C LNAPL (primarily fuel oil)has a low fraction of volatile constituents rendering remedial technologies that rely on vapor-phase partitioning infeasible on a technical basis.
  - Based on the results of simulated distillation testing, a significant portion of the LNAPL has a boiling point above 400°C and would be considered SVOCs. Steam or electric resistive heating (ERH) are not recommended for SVOCs because a higher temperature is required to recover these compounds.
  - In situ thermal remediation may be technically feasible for the area; however, it does not represent an economically feasible remedial alternative given the relatively large area that would need to be addressed.

3) *Can institutional/engineering controls provide effective risk mitigation?*

YES – The risks associated with these areas are GSI and volatilization to Indoor Air concerns.

- GSI – The storm sewer GSI pathway will be addressed by bulkheading the Outfall 009 and 010 storm sewers and eliminating this GSI pathway.
- Potential Groundwater Volatilization to Indoor Air Concern at the Property Boundary: Based on the current understanding of risk conditions, it is likely that institutional controls will also be recommended as the on and off Site remedy.
- Potential Volatilization to Indoor Air Concerns for Future Structures: - Based on the current understanding of risk conditions, the volatilization to indoor air risk can be effectively mitigated through institutional controls.

4) *Is there potential benefit to partial treatment/removal that outweighs costs?*

NO – GSI and Potential Volatilization to Indoor Air concerns can be addressed by engineering and institutional controls.

5) *Is LNAPL migrating or potentially migrating (i.e. mobile along the perimeter)?*

NO – These LNAPL areas appear to be stable. This finding is supported by the following lines of evidence:

- Well Gauging Data: Sentinel wells located around the periphery of the AOI 40-A, -B, & 16-C LNAPL areas have remained free of LNAPL since monitoring began approximately 10 years ago.
- Age of LNAPL Release: The AOI 40-A, -B, & 16-C LNAPL Areas were identified between 1984 and 2001. Operations began in this portion of the Site in the 1910's and ceased in this portion of the Site in 1999 (no active LNAPL sources for at least 10 years). LNAPL bodies typically stabilize within 2 to 5 years after a release has been stopped (ITRC, 2012).

6) *Is LNAPL mobile within the stable LNAPL perimeter?*

YES – LNAPL has been detected in several monitoring wells indicating that it is mobile within the stable perimeter.

7) *Is LNAPL readily recoverable?*

YES– The results of historic interim measures, bench-scale testing and transmissivity testing indicate that the AOI 40-A, -B, and 16–C LNAPL Areas may be readily recoverable in the northern portion of the AOI 40-A LNAPL Area. These activities are summarized below:

- During the Site-wide LNAPL monitoring program conducted from 2003 through 2005, a total of approximately 3.4 gallons of LNAPL was recovered in 10 quarterly bailing events in the AOI 40-A, -B, & 16-C LNAPL Areas.
- In 2011, as part of bench scale testing activities, hydraulic LNAPL recovery through residual saturation analysis was evaluated. LNAPL saturation was assessed on soil cores collected from AOI 40-A, -B, & 16-C through the petrophysical laboratory analysis Residual Saturation by Water Drive (RSWD). A total of six RSWD tests were performed on samples collected where LNAPL is located in the subsurface. The testing showed that the sample collected from LIF-40-004 showed a 62.4% decrease in LNAPL saturation following the surfactant enhanced water drive and a 10.7% decrease in saturation during the hot water drive.
- A transmissivity study was completed at the AOI 40-A, -B, &, 16-C LNAPL Areas, which consisted of completing four quarters of baildown testing at four monitoring wells (40-7R2, RFI-16-08, RFI-40-02R and LIF-04-004). Based on LNAPL baildown test results, LNAPL transmissivities quantified at monitoring well 40-7R2 ranged from 1.3 to

1.9 square feet per day (ft^2/day), which exceed the ITRC and MDEQ draft standard threshold values that indicates LNAPL recovery may be practicable at this well. Due to poor recovery, transmissivity testing was inconclusive at RFI-40-02R. Transmissivity tests were not conducted at RFI-16-08 and LIF-04-004 because there was insufficient LNAPL accumulation in the monitoring wells during the course of the study.

8) Will potential benefit of LNAPL recovery outweigh the costs?

NO – Compositional and saturation concerns can be addressed through engineering and institutional controls. Although LNAPL may be recoverable at RFI-40-7R2, the value of recovery does not outweigh the recovery costs.

9) Are controls required?

YES – The following AOI-specific institutional and engineering controls, in addition to the Site-wide institutional controls, are proposed for the AOI 40-A, -B, & 16-C LNAPL Areas to limit future exposure:

- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads as noted on **Figure 6 of the main report**, and
- Prohibit any excavation or other intrusive activity that could affect the integrity of the surface cover that is present to prevent direct contact with contaminated material (as noted in **Appendix P**) except with using appropriate health and safety measures during short-term construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the surface cover, that could affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original barrier within a reasonable timeframe. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the NREPA.

Attachment 3

Remedy Recommendations

Priority #11 – AOI 40-A, -B, & 16-C Fuel Oil LNAPL Areas Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 3 – Recommended Remedy

This attachment presents the recommended remedies for the area of interest (AOI) 40-A, -B, & 16-C Fuel Oil light non-aqueous phase liquid (LNAPL) Areas (AOI 40-A, -B, & 16-C LNAPL Areas).

1. Compositional and Saturation Concerns

The LNAPL Decision Tree Analysis presented in **Attachment 2** identified potential volatilization to indoor air and groundwater surface water interface (GSI) as compositional concerns and mobility as a saturation concern for the AOI 40-A, -B, & 16-C LNAPL Areas. The surficial soil direct contact exceedances will be addressed separately in Appendix P and the potential direct groundwater discharge pathway from AOI 40-A, -B, &16-C to the Flint River will be addressed in **Appendix BB**.

2. Remedy Recommendation Rationale

The remedies recommended to address the compositional concerns associated with the AOI 40-A, -B, & 16-C LNAPL Areas are engineering and institutional controls, which are discussed in detail in Section 3. The rationale for this selection is detailed below:

- Based on the current understanding of risk conditions, the potential volatilization to indoor air risk for future structures due to the biodegradation of LNAPL generating methane can be effectively mitigated through the Site-wide institutional controls.
- Based on the current understanding of risk conditions, the potential groundwater volatilization to indoor air (on and off Site) can be effectively mitigated through the institutional controls.
- The storm sewer GSI pathway will be addressed by bulkheading the Outfall 009 and 010 storm sewers and eliminating this pathway.
- Although the LNAPL at AOI 40-A, -B, & 16-C is mobile within the stable perimeter, transmissivity testing indicates that recovery may be practical at only one monitoring well (RFI-40-7R2). However, LNAPL recovery at RFI-40-7R2 would not decrease risk at the AOI 40-A, -B, & 16-C LNAPL Areas.
- Due to poor recovery, transmissivity testing was inconclusive at RFI-40-02R indicating hydraulic recovery in this area would not be feasible.

- Transmissivity tests were not conducted at RFI-16-08 and LIF-04-004 because there was insufficient LNAPL accumulation in the monitoring wells during the course of the study.
- An NSZD study was conducted at five locations (located in the AOI 40-A, -B, and 16-C LNAPL Areas. The testing completed indicated that NSZD is occurring; however, the currently available testing technologies cannot reliably quantify the depletion beneath a concrete slab.

3. AOI 40-A, -B, and 16-C Remedies

3.1 Completed Interim Measures

During the Site-wide LNAPL monitoring program conducted from 2003 through 2005, a total of approximately 3.4 gallons of LNAPL was recovered during quarterly monitoring and bailing events completed at 18 monitoring wells at AOI 40-A, -B and 16-C the former Building 40 and 16 area. The partial removal of product has been completed in this area and is considered a component of the remedy.

3.2 Additional Remedy Recommendations

The remedies recommended to address the compositional concerns associated with AOI 40-A, -B, & 16-C are bulkhead installation and institutional controls. These combined remedies will eliminate the GSI pathway and reduce exposure risks associated with the vapor phase, and be protective of future workers in the long term.

3.2.1 Outfall 009 and 010 Bulkhead Installation

In order to address the risks associated with the GSI impacts the Outfall 009 and Outfall 010 storm sewers will be bulkheaded at the last on-Site manhole in order to eliminate the potential pathway for groundwater GSI impacts to reach the Flint River. The locations of the bulkheads are presented on **Figure 6 of the main report**.

3.2.2 Institutional Controls

The following AOI-specific institutional and engineering controls, in addition to the Site-wide institutional controls, are proposed for the AOI 40-A, -B, & 16-C LNAPL Areas to limit future exposure:

- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads as noted on **Figure 6 of the main report**, and

- Prohibit any excavation or other intrusive activity that could affect the integrity of the surface cover that is present to prevent direct contact with contaminated material (as noted in **Appendix P**) except with using appropriate health and safety measures during short-term

construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the surface cover, that could affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original barrier within a reasonable timeframe. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the NREPA.

Appendix K

AOI 83/84/5 Cutting Oil Area
Remedy Recommendation Memo

ARCADIS of Michigan, LLC
28550 Cabot Drive
Suite 500
Novi
Michigan 48377
Tel 248 994 2240
Fax 248 994 2241

MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER
Chris Peters, ARCADIS
Steve Gaito, ARCADIS

From:
Micki M. Maki
Victoria Stacey

Date:
August 29, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
Priority #12 - AOI 83/84-5 Cutting Oil LNAPL Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

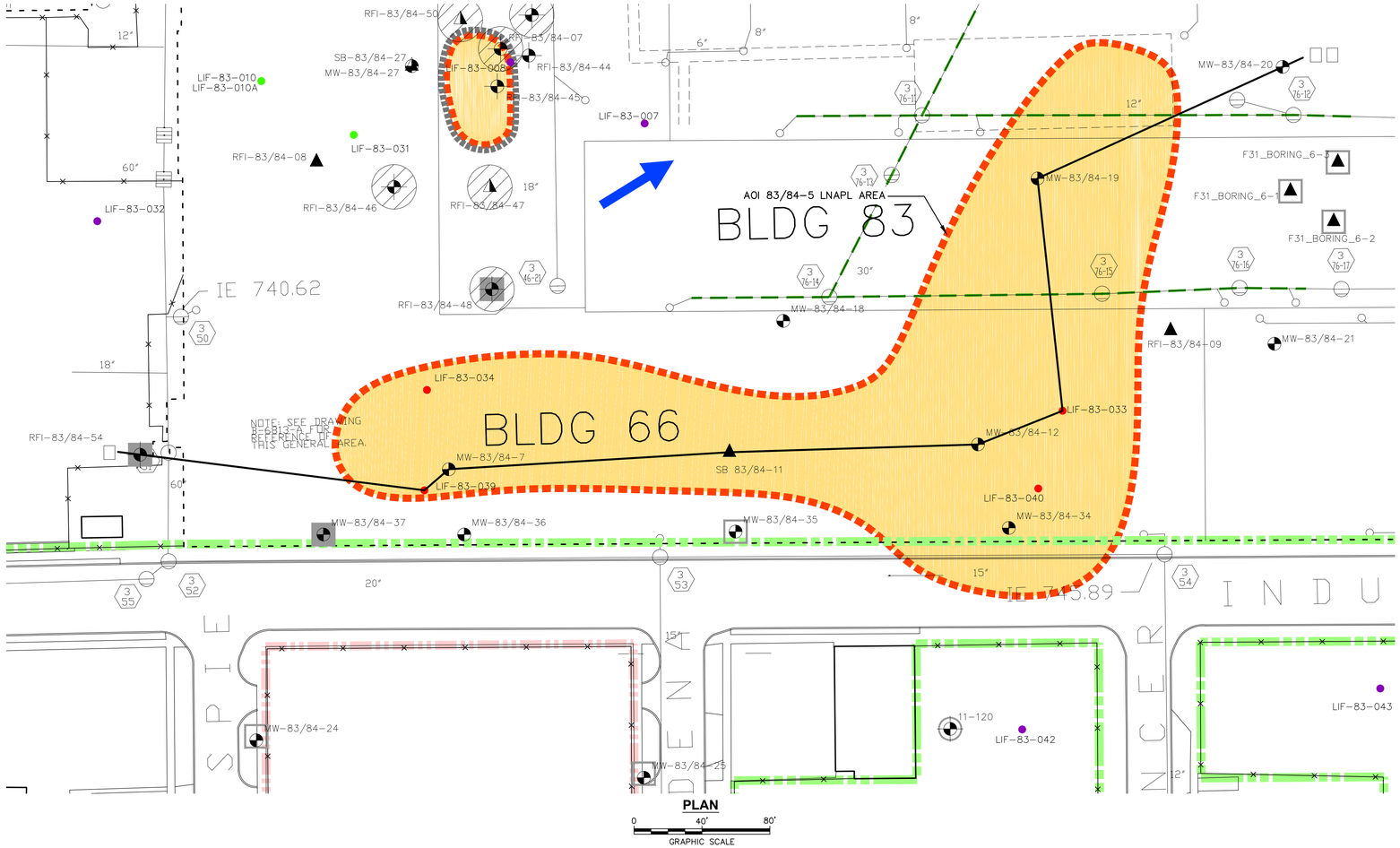
As part of the light non-aqueous phase liquid (LNAPL) remedy evaluation process the Site's 17 LNAPL areas were prioritized based on risk. The Area of Interest (AOI) 83/84-5 Cutting Oil LNAPL Area (AOI 83/84-5 LNAPL Area) is ranked as Priority #12 with a total potential risk score of 3 (**Table 5 of the main report**). A conceptual site model cross-section is attached (**Figure K-1)** that provides an overview of the AOI 83/84-5 LNAPL Area impacts.

The compositional and saturation concerns identified for the AOI 83/84-5 LNAPL Area were evaluated in the LNAPL decision tree (**Attachment 2**) and are summarized below:

- Theoretically, there is a potential unacceptable vapor phase exposure risk associated with methane, generated through the biodegradation of LNAPL, for future redevelopment scenarios; however, this will be addressed by the proposed institutional controls.
- No feasible options exist to mitigate unacceptable risk through compositional change.
- The LNAPL may be readily recoverable in a portion of the AOI 83/84-5 LNAPL area.
- The AOI 83/84-5 LNAPL area has been recently identified; therefore, additional sampling and investigation will be completed to further delineate the extent of LNAPL to the west and south and to better define the risks associated with the LNAPL Area.

- As the AOI 83/84-5 LNAPL Area is adjacent to the property boundary, and may extend off-Site, and that the LNAPL in the vicinity of MW-83/84-7 is likely readily recoverable, LNAPL recovery is recommended at this LNAPL area.
- The Outfall 003 storm sewer lateral servicing this portion of the Site has been bulkheaded eliminating the lateral as a possible migration pathway.

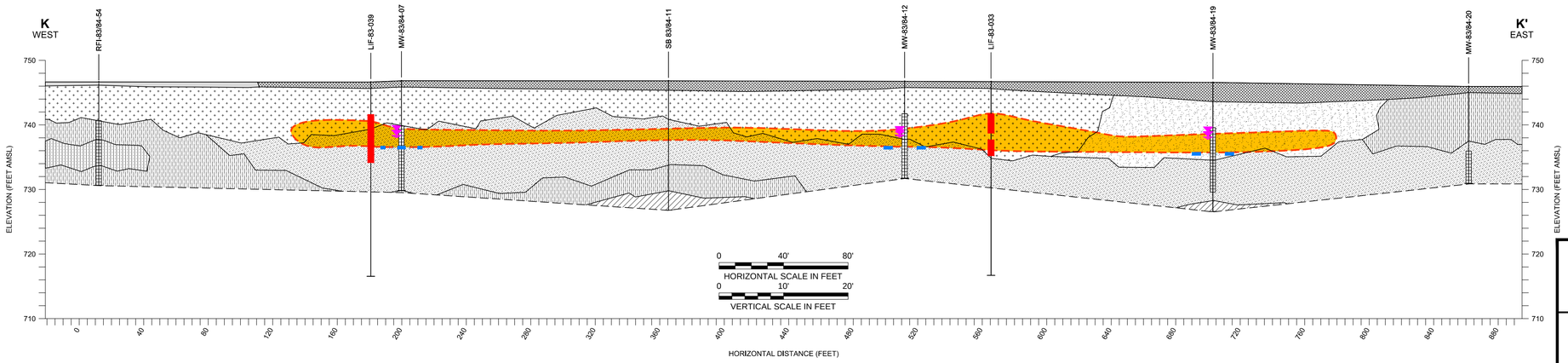
Based on the current understanding of the conceptual site model, the vapor phase and mobility concerns associated with the AOI 83/84-5 LNAPL Area can effectively be mitigated through institutional controls. However, based on the proximity of the AOI 83/84-5 LNAPL Area to the property boundary, LNAPL recovery is also recommended.

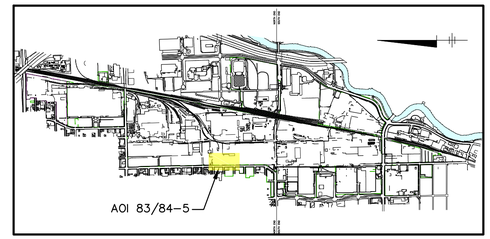


PLAN

0 40' 80'

GRAPHIC SCALE





SITE MAP

0 2000' 4000'

SCALE IN FEET

AOI 83/84-5 CUTTING OIL AREA

□EY LNAPL COMPOSITION AND SATURATION CONCERNS

1) POTENTIAL VOLATILIZATION TO INDOOR AIR CONCERN FOR FUTURE STRUCTURES
2) LNAPL MAY EXTEND OFF SITE TO THE WEST

COMPLETED INTERIM MEASURES AND RECOMMENDED REMEDIES

R-1) STORM SEWER LATERAL BULKHEAD TO ELIMINATE LNAPL MIGRATION PATHWAY (IM COMPLETED)

R-2) LNAPL RECOVERY

R-3) INSTITUTIONAL CONTROLS

NOTES:

1. BASE MAP INFORMATION FROM SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.
2. BASED ON INFORMATION AVAILABLE AS OF 03/19/14.
3. FILL MATERIAL CONSIST OF FOUNDRY SAND OR FILL SAND.

RACER TRUST
BUICK CITY, FLINT, MICHIGAN

AOI 83/84-5 CONCEPTUAL SITE MODEL CROSS SECTION □-□□

ARCADIS

FIGURE □-1

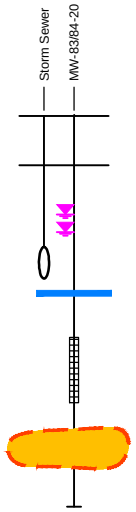
CITY:SYRACUSE DIV/GROUP:ENV DB:A.SANCHEZ LD:AS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF* C:\Users\alsanchez\Desktop\ACTIB0064410\20140020\6\sections\64410V01.DWG LAYOUT: K1-1 SAVED: 8/20/2014 6:38 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: BBL-FULL.CTB PLOTTED: 8/25/2014 8:43 AM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME: ----

LEGEND

- PROPERTY BOUNDARY
- HISTORICAL LNAPL EXTENT
- CURRENT LNAPL EXTENT
- STORM SEWER
- ABANDONED STORM SEWER LATERAL
- APPROXIMATE LOCATION OF RECOVERY TRENCH
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- A1 — A1 LINE OF SECTION
- RFI MONITORING WELL LOCATION
- MONITORING WELL LOCATION
- RECOVERY WELL (NAPL) LOCATION
- PIEZOMETER LOCATION
- SOIL BORING LOCATION
- DECOMMISSIONED WELL LOCATION
- EVIDENCE OF PRODUCT OBSERVED IN SOIL

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

- <5
- 5–10
- 10–100
- 100–200
- >200
- HAND AUGER REFUSAL (TOP 5')
- GROUNDWATER SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- GROUNDWATER SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- SOIL SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES DO NOT EXCEED APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES EXCEED ONE OR MORE APPLICABLE CRITERIA



- WELL/BORING ID
- EXISTING GRADE
- LITHOLOGICAL CONTACT (DASHED WHERE INFERRED)
- NAPL LEVEL (HISTORIC HIGH AND LOW LEVELS)
- WATER TABLE
- WELL SCREEN
- APPROXIMATE EXTENT OF LNAPL
- WELL/BORING BOTTOM
- ASPHALT
- CONCRETE
- CLAY
- FILL
- GRAVEL
- INTERBEDDED SAND AND CLAY
- INTERBEDDED SANDS AND SILTS
- INTERBEDDED SILT AND CLAY
- SAND
- SILT
- SILTY SAND

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

CROSS SECTION LEGEND

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FIGURE
K-2

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB0064410\2014\00206\Xsections\64410V01.DWG LAYOUT: 1A SAVED: 7/11/2014 11:58 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: BBL-FULL.CTB PLOTTED: 7/11/2014 1:56 PM BY: SANCHEZ, ADRIAN
XREFS: IMAGES: PROJECTNAME: ---
Xr64410X3Bsp
Xr64410XDrainage
Xr64410X01
Xr64410XLIFsp2
Xr64410X01
Xr64410XAOI
Xr64410XLNAPL

Attachment 1

LNAPL Conceptual Site Model

Priority #12 - AOI 83/84-5 Cutting Oil LNAPL Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 1 - Conceptual Site Model

This attachment presents a conceptual site model for the Area of Interest (AOI) 83/84-5 Cutting Oil light non-aqueous phase liquid (LNAPL) Area (AOI 83/84-5 LNAPL Area). AOI 83/84-5 is located at the Buick City Site (Site) located in Flint, Michigan (**Figure K1-1**).

1. Background

AOI 83/84-5 is located in the Building 66 portion of the former Factory 83/84 Area in the southwestern portion of the Northend of the Site (**Figure K1-2**). Historically, the former Factory 83/84 Area was primarily used as a gray iron foundry prior to 1981. From 1981 to 2010, the area was used for welding, machining, and assembly of torque converters. The former Factory 83/84 Area included various process trenches and pits and a former heat treating tunnel. The AOI 83/84-5 LNAPL Area is presumably due to historical releases associated with operations in this area.

Investigation data previously presented in Site reports are not re-presented in this memo. However, pertinent AOI 83/84-5 investigation data that has not previously been presented in a Site report is attached to this memo.

2. AOI 83/84-5 Site Setting and Data Summary

This section provides a summary of the geology, hydrogeology, analytical data, and LNAPL characteristics and extent of impacts for the AOI 83/84-5 LNAPL Area.

Figure 2 presents the locations of the existing and abandoned monitoring wells and soil borings in the AOI 83/84-5 LNAPL Area.

2.1. AOI 83/84-5 Geology and Hydrogeology

- *Geology:* The soils at AOI 83/84-5 consist of primarily fine to medium sand interbedded with silts and clays to a depth of approximately 17 feet below ground surface (bgs) that are underlain by

clay. The laser induced fluorescence (LIF) logs also indicated evidence of LNAPL impacts from as shallow as 5 feet bgs and as deep as 12 feet bgs, across the area.

- *Groundwater/LNAPL Levels:* Fourteen monitoring wells (11-120, MW-83/84-07, MW-83/84-12, MW-83/84-18, MW-83/84-19, MW-83/84-20, MW-83/84-24, MW-83/84-25,MW-83/84-34, MW-83/84-35, MW-83/84-36, MW-83/83-37, RFI-83/84-48, and RFI-83/84-54) located in the AOI 83/84-5 LNAPL Area are gauged to monitor the extent of the LNAPL. Depth to groundwater (or LNAPL where present) in this area is generally 9 feet bgs. LNAPL has accumulated at four monitoring wells that define the LNAPL Area (MW-83/84-07, MW-83/84-12, MW-83/84-19, and MW-83/84-34). All four monitoring wells were installed in 2013-2014. During June 2013, thicknesses ranged from 1.45 to 2.17 feet. The greatest thickness of LNAPL measured at MW-83/84-34 was 4.4 feet in March 2014.

  Based on historic fluid level gauging data, groundwater flow in this portion of the Site is generally to the east-southeast. The groundwater level data are presented in **Appendix X.**

2.2. Groundwater and Soil Analytical Data

Analytical data were compared to applicable Michigan Part 201 nonresidential criteria.

2.2.1 Groundwater Analytical Data

The only groundwater sample collected in the vicinity of AOI 83/84-5 was collected from monitoring well 11-120, which is located upgradient of AOI 83/84-5. The groundwater sample did not exceed applicable nonresidential criteria.

2.2.2 Soil Volatile Organic Compound (VOC), Semi-volatile Organic Compound (SVOC), and Metals Analytical Data

Soil samples collected from two boring locations in the AOI 83/84-5 LNAPL area exceed groundwater surface water interface protection (GSIP) criteria for select metals. MW-83/84-37 exceeds GSIP criteria for selenium (0.54-0.56/0.4 mg/kg), and RFI-83/84-48 exceeds GSIP criteria for arsenic (16/4.6 mg/kg) and manganese (490-690/98 mg/kg).

Additionally, mercury was detected above the GSIP criterion at RFI-83/84-54. However, this impact is located approximately 175 feet upgradient of the AOI 83/84-5 LNAPL area in a soil sample collected from 0.6 to 2.6 feet bgs and does not appear to be related to the AOI 83/84-5 LNAPL Area.

2.2.3 GSI Evaluation

As discussed in further detail in **Appendix BB**, groundwater surface water interface (GSI) exceedances in the Site storm sewers are being evaluated by the ongoing NPDES Plus Monitoring Program (NPMP). There does not appear to be a GSI pathway for the AOI 83/84-5 LNAPL Area. This area is located in the Outfall 003 drainage area and the laterals that serve this area have either been bulkheaded or are located above the groundwater table. The Outfall 003 South main is located upgradient of the AOI 83/84-5 LNAPL Area.

The monthly NPMP samples collected from the Outfall 003 storm sewer (which services this portion of the Site) as part of the NPMP have not exhibited concentrations of manganese or selenium above GSI criteria at the downgradient monitoring point. However, in the last 36 sampling events there has been one exceedance for arsenic. Note that arsenic was also detected in storm sewer samples collected at the Site's upgradient property boundary.

Data evaluations completed to date suggest that the majority of the metals impacts in the Outfall 003 storm sewer can be addressed a mixing zone based remedy; however, additional data collection and evaluation is needed.

2.2.4 Soil PCB Analytical Data

Polychlorinated biphenyls (PCBs) were not detected in the soil samples collected from the AOI 83/84-5 LNAPL Area.

2.2.4 Vapor Intrusion Evaluation

Due to the presence of shallow groundwater and LNAPL (approximately 9 feet below ground surface) at AOI 83/84-5, groundwater data were also compared to the applicable Non-Residential Screening Values for the Vapor Intrusion Pathway presented in the *Michigan Department of Environmental Quality (MDEQ) Guidance Document for the Vapor Intrusion Pathway* (further discussed in Section 3.4 of the Report). Groundwater concentrations do not exceed applicable screening levels. However, as the AOI 83/84-5 LNAPL Area has been recently identified and due to its proximity to the property boundary, additional sampling will be completed to further evaluate vapor intrusion.

As there are no structures at the Site the MDEQ Part 201 criteria are appropriate for comparison of soil data. Soil data did not exceed applicable screening levels.

2.3. LNAPL Characteristics

- *LNAPL Analytical Data:* LNAPL present at AOI 83/84-5 consists primarily of cutting oil. Additional analysis indicated that:

    - The LNAPL has a viscosity of 87.49 centipoise and a specific gravity of 0.906. This data is used to evaluate LNAPL recoverability and as part of the LNAPL transmissivity analysis.
    - Concentrations of arsenic exceed TCLP criteria; however, TCLP analysis has not been conducted.
    - PCBs were not detected in the LNAPL.

  For reference, the viscosity (at 100 degrees Fahrenheit) of honey is 73.6 cp (Ingersoll-Rand, 1981). The applicable LNAPL analytical data are presented in **Appendix X**.

- *LIF Data:* Four LIF borings were completed in the AOI 83/84-5 LNAPL Area. The vertical range of LIF impact (greater than 5%RE) at AOI 83/84-5 is typically 5 to 12 feet bgs. **Figure K1-2** presents the results of the LIF investigation associated with the AOI 83/84-5 LNAPL Area.

- *Transmissivity:* An LNAPL transmissivity study was completed in the AOI 83/84-5 LNAPL Area in August 2013. LNAPL baildown tests were conducted at two monitoring wells, MW-83/84-7 and MW-83/84-19. The LNAPL transmissivity quantified at MW-83/84-7 was 1.6 square feet per day (ft^2/day), which is greater than both the Interstate Technology Regulatory Council (ITRC) and MDEQ threshold values for recovery indicating that LNAPL may be readily recoverable at this well. However, the LNAPL transmissivity quantified at monitoring well MW-83/84-19 was 0.08 ft^2/day, which is less than both the ITRC and MDEQ threshold values for recovery, indicating that LNAPL recovery is not practicable at this well. Additional transmissivity testing will be completed in the central portion of the plume, if possible.

- *Natural Source Zone Depletion (NSZD):* NSZD testing was not attempted at AOI 83/84-5 due to the presence of a concrete slab. The testing completed at the Southend of the Site in similar soils indicated that NSZD is occurring; however, the currently available testing technologies cannot reliably quantify the depletion beneath a concrete slab. In addition when monitoring well MW-83/84-7 was installed, high levels of methane were detected, indicating that NSZD is occurring in this area.

2.4. Extent of LNAPL

Based on recently completed Site investigation, the footprint of LNAPL area containing approximately 0.1 ft or greater of LNAPL was estimated to be 85,500 square feet (as discussed in Section 2.1.3 of the main report). However, as the AOI 83/84-5 LNAPL Area has been recently identified and due to its proximity to the property boundary additional delineation activities are planned to further define LNAPL extents to the west and south. Based on the LIF and soil boring log data, depth to LNAPL impacts are approximately 5 to 12 ft. bgs.

ARCADIS

Boring Logs

Date Start/Finish: 4/11/13 - 4/15/13
Drilling Company: Stearns Drilling
Driller's Name: Brian Marshall
Drilling Method: Sonic
Sampling Method: Hand Auger/ 4" Core Barrel
Rig Type: Mini Sonic

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 17.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **MW-83/84-07**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0 / 0				NA			(0.0-0.8') CONCRETE, 1/2" in. rebar reinforced with fiberglass.	0.0-1.0' (Cement)
	1	0.0-5.0	5.0	0.0 0.8 0.7 1.1			(0.8-7.0') SAND, fine, rounded; little granules to small pebbles, subrounded; poorly sorted; dry; black (10YR 2/1). Note: Slight odor, Fill.	1.0-5.0' bgs (Bentonite)
5 / -5				1.3				
				1.6				
				1.3			(7.0-10.0') SAND, fine, subrounded; and CLAY, low plasticity, rapid dilatancy; poorly sorted; moist; brown (10YR 4/3).	5.0-20.0' bgs (K&E #1 filterpack)
				1.0				
10 / -10				1.0				
				0.5			(10.0-17.0') SAND, very fine, rounded to subrounded; well sorted; wet; brown (10YR 4/3).	
	2	5.0-17.0	12.0	0.2				7.0-17.0' bgs (10-slot PVC screen)
				0.0				
				0.2				
15 / -15				0.0				
				0.2				
				0.4				
20 / -20							End of boring at 17.0' bgs.	

Remarks: Hand Auger to 5.0' bgs. LEL and CO values recorded as %/ppm as follows: 5.5' (0.0/2.0); 6.5' (0/3); 7.5' (8/7); 8.5' (3/4); 9.5' (7/4); 10.5' (10/3); 11.5' (3/4); 12.5' (10/7); 13.5' (NA/38); 14.5' (63/19); 15.5' (0/6); 16.5' (48/28).

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Date Start/Finish: 4/15/13-4/15/13
Drilling Company: Stearns Drilling
Driller's Name: Brian Marshall
Drilling Method: Sonic
Sampling Method: Hand Auger/ 4" Core Barrel
Rig Type: Mini Sonic

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 15.0' bgs.
Surface Elevation: NA

Descriptions By: T. Stevens

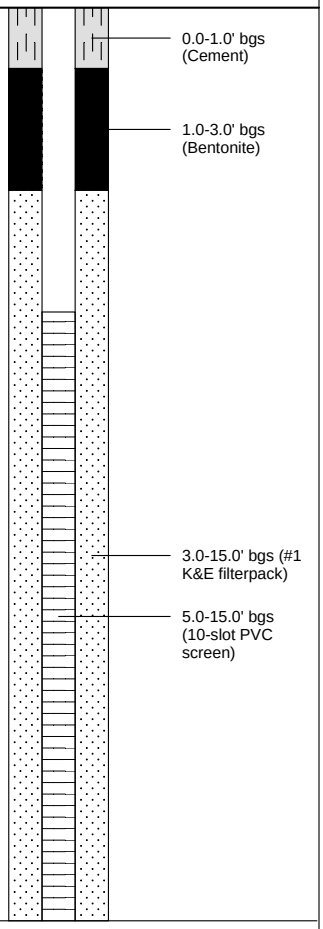
Well/Boring ID: **MW-83/84-12**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description
0 / 0				NA			(0.0-1.0) CONCRETE.
				0.0			(1.0-2.0') SAND, fine to medium, subrounded; little granules, subrounded; trace silt; poorly sorted; dry; very dark grayish brown (10YR 3/2). Note: Fill.
	1		5.0	0.0			(2.0-4.0') SAND, fine, subrounded; little clay, low plasticity; poorly sorted; wet; dark gray (10YR 4/1). Note: Wet at 2.0' bgs.
				0.0			(4.0-5.0') SAND, fine to medium, subrounded; and CLAY, low plasticity; poorly sorted; wet; brown (10YR 4/3). Note: Slight odor at 5.0' bgs.
5 / -5				0.0			(5.0-9.0') SAND, very fine to fine, rounded to subrounded; and SILT, non-plastic, rapid dilatancy; well sorted; wet; dark gray (10YR 4/1).
				0.0			
				0.0			
				0.0			
				0.0			(9.0-11.0') CLAY, high plasticity, slow dilatancy; little very fine sand; moist; soft; dark gray (10YR 4/1).
10 / -10	2		10.0	0.0			
				0.0			(11.0-12.0') SAND, medium to coarse, subrounded; trace granules; subangular; poorly sorted; wet; brown (10YR 4/3).
				0.0			(12.0-13.5') SAND, fine, subrounded; trace silt; well sorted; wet; dark grayish brown (10YR 4/2).
				0.0			(13.5-14.0') CLAY, little silt, high plasticity, no dilatancy; trace very fine sand,; moist; medium stiff; dark grayish brown (10YR 4/2).
				0.0			(14.0-15.0') SAND, fine to medium, rounded to subrounded; well sorted; wet; dark grayish brown (10YR 4/2).
15 / -15							End of boring at 15.0' bgs.

Well/Boring Construction



Remarks: Hand Auger to 5.0' bgs.

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Date Start: 5/22/2013
Date Finish: 5/22/2013
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Sonic
Sampling Method: 6" Core barrel
Rig Type: Mini Sonic
Water Level Start (ft. bgs.): 8.0
Water Level Finish (ft. btoc.): 7.55

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 20.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: MW-83_84-18

Client: RACER Trust

Location: RACER Buick City
Flint, MI

Weather Conditions: 70F, Rain

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0.0-5.0	5.0	0.0			(0.0-3.0') CONCRETE.		0.0-1.0' bgs (Cement)
				0.0			(3.0-8.0') SAND, fine to coarse, subrounded to subangular; some granules to small pebbles, subangular; little silt; poorly sorted; dry; black (10YR 2/1). Note: Slight odor.		1.0-5.0' bgs (Bentonite)
5 / -5	2	5.0-10.0	5.0	0.0					
				0.0					
				0.0					5.0-20.0' bgs (#1 K&E filterpack)
				0.0			(8.0-16.0') SAND, fine to coarse, subrounded to subangular; trace silt; poorly sorted; wet; grayish brown (10YR 5/2).		
10 / -10	3	10.0-15.0	5.0	0.0					
				0.0					
				0.0					7.0-17.0' bgs (10-slot PVC screen)
				0.0					
15 / -15	4	15.0-20.0	5.0	0.0			(16.0-18.0') SAND, very fine, subrounded; little silt; well sorted; wet; grayish brown (10YR 5/2).		
				0.0					
				0.0			(18.0-20.0') CLAY, high plasticity, no dilatancy; moist; grayish brown (10YR 5/2).		
20 / -20				0.0			End of boring at 20.0' bgs.		

Remarks: Hand Auger to 5.0' bgs.

ARCADIS
Infrastructure · Water · Environment · Buildings

Date Start: 5/22/2013
Date Finish: 5/22/2013
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Sonic
Sampling Method: 6" Core barrel
Rig Type: Mini Sonic
Water Level Start (ft. bgs.): 13.0
Water Level Finish (ft. btoc.): 9.72

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 20.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

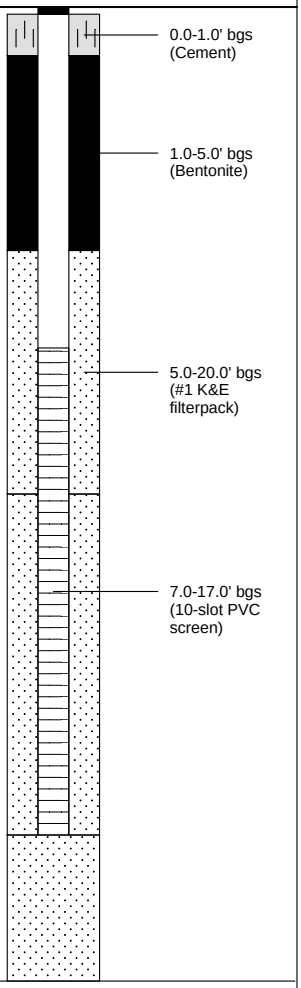
Well/Boring ID: MW-83_84-19

Client: RACER Trust

Location: RACER Buick City
Flint, MI

Weather Conditions: 70F, Cloudy

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0								
	1	0.0-5.0	5.0	NA			(0.0-3.0') CONCRETE.	
				NA			(3.0-7.0') SAND, medium to coarse, subrounded to subangular; some granules to small pebbles, subangular to subangular; poorly sorted; dry; black (10YR 2/1). Note: Slight odor, sheen.	
5 / -5				NA				
	2	5.0-10.0	5.0	NA			(7.0-9.0') SAND, very fine, subrounded to rounded; little silt; well sorted; moist; dark gray (10YR 4/1).	
				NA			(9.0-12.0') SAND, medium to very coarse, subrounded; little granules, subangular; poorly sorted; wet; dark yellowish brown (10YR 4/6).	
10 / -10				NA				
				NA			(12.0-12.5') CLAY, trace silt, high plasticity, slow dilatancy; moist; dark gray (10YR 4/1).	
	3	10.0-15.0	5.0	NA			(12.5-14.0') SAND, very fine to fine, subrounded; and SILT, non-plastic; well sorted; wet; dark gray (10YR 4/1). Note: Wet at 13.0' bgs.	▼
				NA			(14.0-17.0') SAND, very fine to fine, subrounded; well sorted; wet; dark gray (10YR 4/1).	
15 / -15				NA				
				NA				
	4	15.0-20.0	5.0	NA			(17.0-20.0') CLAY, high plasticity, no dilatancy; moist; soft to medium stiff; dark gray (10YR 4/1).	
				NA				
20 / -20				NA				
							End of boring at 20.0' bgs.	



Well/Boring Construction

Remarks: Hand Auger to 5.0' bgs.
No PID values due to faulty 5-Gas meter.

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Date Start: 5/21/2013
Date Finish: 5/21/2013
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Sonic
Sampling Method: 6" Core barrel
Rig Type: Mini Sonic
Water Level Start (ft. bgs.): 11.0
Water Level Finish (ft. btoc.): 7.4

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 15.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: MW-83_84-20

Client: RACER Trust

Location: RACER Buick City
Flint, MI

Weather Conditions: 80F, Sunny

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0							(0.0-1.0') CONCRETE.		0.0-1.0' bgs (Cement)
				NA			(1.0-4.0') SAND, very fine to fine, rounded to subrounded; well sorted; dry; dark yellowish brown (10YR 4/4).		
	1	0.0-5.0	5.0	0.0					
				0.0					
				0.0			(4.0-5.0') SAND, very fine, subrounded; and SILT, non-plastic; well sorted; moist; dark gray (10YR 4/1). Note: Slight odor.		1.0-8.0' bgs (Bentonite)
5 / -5				0.0			(5.0-7.3') SAND, very fine, subrounded to rounded; well sorted; moist; dark yellowish brown (10YR 4/6).		
				0.0			(7.3-7.5') SAND, fine to medium, subrounded to subangular; poorly sorted; moist; black (10YR 2/1).		
	2	5.0-10.0	5.0	0.0			(7.5-8.5') SAND, very fine, subrounded; and SILT, non-plastic, rapid dilatancy; trace clay; poorly sorted; moist; medium stiff; dark yellowish brown (10YR 4/6).		
				0.0			(8.5-10.5') CLAY, high plasticity, no dilatancy, dry; soft to medium stiff; dark gray (10YR 4/1).		
10 / -10				0.0					8.0-15.0' bgs (#1 K&E filterpack)
				0.0			(10.5-15.0') SAND, fine to coarse, subrounded; poorly sorted; wet; dark gray (10YR 4/1). Note: Wet at 11.0' bgs.	▼	
	3	10.0-15.0	5.0	0.0					10.0-15.0' bgs (10-slot PVC screen)
				0.0					
15 / -15				0.0			End of boring at 15.0' bgs.		
20 / -20									

Remarks: Hand Auger to 5.0' bgs.

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Date Start: 5/21/2013
Date Finish: 5/21/2013
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Sonic
Sampling Method: 6" Core barrel
Rig Type: Mini Sonic
Water Level Start (ft. bgs.): 8.0
Water Level Finish (ft. btoc.): 7.2

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 20.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: MW-83_84-21

Client: RACER Trust

Location: RACER Buick City
Flint, MI

Weather Conditions: 75F, Sunny

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			(0.0-1.0') CONCRETE.		0.0-1.0' bgs (Cement)
				0.0			(1.0-3.5') SAND, very fine to fine, subrounded; little silt; trace clay; well sorted; dry; dark yellowish brown (10YR 4/6).		
	1	0.0-5.0	5.0	0.0			(3.5-3.8') CLAY, high plasticity, slow dilatancy; little very fine sand; subrounded; medium stiff; dry; dark yellowish brown (10YR 4/6).		1.0-5.0' bgs (Bentonite)
				0.0			(3.8-5.0') SAND, very fine to fine, subrounded; well sorted; wet; dark gray (10YR 4/1).		
5 / -5				0.0			(5.0-9.0') CLAY, low plasticity, rapid dilatancy; and SAND, very fine, subrounded; wet; soft; dark yellowish brown (10YR 4/4).		
				0.0					
	2	5.0-10.0	5.0	0.0					5.0-17.0' bgs (#1 K&E filterpack)
				0.0					
				0.0			(5.0-9.0') SAND, fine to coarse, subrounded to subangular; trace granules, subangular; poorly sorted; wet; dark yellowish brown (10YR 4/6). Note: Wet at 8.0' bgs.		
10 / -10				0.0					
				0.0					
	3	10.0-15.0	5.0	0.0					7.0-17.0' bgs (10-slot PVC screen)
				0.0					
				0.0			NOTE: Coarsens to medium to very coarse sand, little granules from 14.0-15.0' bgs.		
15 / -15				0.0			(15.0-16.5') SAND, very fine, subrounded to rounded; and SILT, non-plastic, rapid dilatancy; wet; dark gray (10YR 4/1).		
				0.0			(16.5-17.0') SAND, medium to coarse, subrounded to subangular; poorly sorted; wet; dark yellowish brown (10YR 4/6).		
	4	15.0-20.0	5.0	0.0			(17.0-20.0') CLAY, high plasticity, no dilatancy; dry; medium stiff to stiff; dark gray (10YR 4/1).		
				0.0					
				0.0					
20 / -20							End of boring at 20.0' bgs.		

Remarks: Hand Auger to 5.0' bgs.

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Date Start: 10/16/13
Date Finish: 10/16/13
Drilling Company: Cascade
Driller's Name: Steve Argue
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 7.0' bgs
Water Level Finish (ft. btoc.): 8.43' btoc

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15' bgs.
Surface Elevation: NA

Descriptions By: Adam Richmond

Well/Boring ID: **MW-83/84-24**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: 50 degrees F, Cloudy

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			(0.0-0.25') CONCRETE.		Protective Casing
				0.4			(0.25-2.0') SILT, low plasticity; trace medium sand; trace clay; trace granules, subangular to subround; dry; very stiff; very dark brown (10YR 2/2).		(1.0-2.0') Sand K&E #2
				0.3			(2.0-10.0') SAND, medium; trace silt; well sorted; dry; dark yellowish brown (10YR 4/6). Note: Fill.		(0.5-4.0') 2" Sch 40 PVC Well Casing
	1	0.0-7.0'	7.0'						(2.0-3.0') Bentonite
5 / -5				0.3					
				0.3			Note: Wet at 7.0' bgs. Note: Color change to dark grayish brown (2.5Y 4/2) at 7.0' bgs.		
	2	7.0-10.0'	3.0'	0.0					(3.0-15.0') Filter Pack K&E #2
10 / -10				0.0			(10.0-15.0') SAND, fine; little silt; trace granules, subangular to subround; poorly sorted; wet; light olive brown (2.5Y 5/4).		(4.0-14.0') 2" Sch 40 PVC 0.010 Slot Well Screen
	3	10.0-15.0'	5.0'	0.0					
				0.0					
15 / -15							End of boring at 15.0' bgs.		
20 / -20									

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Remarks: Hand augered to 7.0' bgs.
MW-83/84-24(0.25-2) collected at 1230.
MW-83/84-24(5-7) collected at 1315.

Date Start: 10/16/13
Date Finish: 10/16/13
Drilling Company: Cascade
Driller's Name: Steve Argue
Drilling Method: Sonic
Sampling Method: 4" Five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 5.0' bgs.
Water Level Finish (ft. btoc.): 8.45' btoc.

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15' bgs.
Surface Elevation: NA

Descriptions By: Adam Richmond

Well/Boring ID: **MW-83/84-25**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: 50 degrees F, Partly Cloudy

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0							(0.0-0.25') CONCRETE.		Protective Casing
				NA			(0.25-2.0') SAND, medium; well sorted; moist; yellowish brown (10YR 5/8).		(1.0-2.0') Sand K&E #2
				0.0					
				0.2			(2.0-8.0') SAND, fine; some silt; poorly sorted; moist; yellowish brown (10YR 5/8).		(0.5-4.0') 2" Sch 40 PVC Well Casing
	1	0.0-7.0'	7.0'	0.5					(2.0-3.0') Bentonite
				0.3					
5 / -5							Note: Wet at 5.0' bgs.		
				0.6					
				0.8					
				0.0					
	2	7.0-10.0'	3.0'				(8.0-15.0') SAND, medium; little silt; trace granules, subangular to subround; well sorted; wet; light olive brown (2.5Y 5/4).		(3.0-15.0') Filter Pack K&E#2
				0.0					(4.0-14.0') 2" Sch 40 PVC 0.010 Slot Well Screen
10 / -10									
				0.0					
	3	10.0-15.0'	5.0'						
				0.0					
15 / -15				0.0			End of boring at 15' bgs.		
20 / -20									

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Remarks: Hand augered to 7.0' bgs.
MW-83/84-25(0.25-2) collected at 0935.
MW-83/84-25(3-5) collected at 1015.
MW-83/84-25(6-7) collected at 1030.

Date Start: 10/15/13
Date Finish: 10/15/13
Drilling Company: Cascade
Driller's Name: Steve Argue
Drilling Method: Sonic
Sampling Method: 4" Five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 7.0' bgs.
Water Level Finish (ft. btoc.): 6.82' btoc.

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 20'
Surface Elevation: NA

Descriptions By: Adam Richmond

Well/Boring ID: **MW-83/84-29**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: 50 degrees F, Cloudy

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
				NA			(0.0-1.0') CONCRETE.		Protective Casing
				0.0			(1.0-3.0') SAND, medium; trace medium pebbles, subrounded; well sorted; dry; light yellowish brown (2.5Y 6/4). Note: wood and metal chunks.		(1.0-1.5') Native Backfill
	1	0.0-5.0'	5.0'	2.4					(0.5-3.0') 2" Sch 40 PVC Well Casing
				4.7			(3.0-4.0') SAND, fine; little silt; trace granules, subrounded; poorly sorted; moist; dark grayish brown (2.5Y 4/2). Note: Moderate odor and staining.		(1.5-2.5') Bentonite
				12.9			(4.0-7.0') SAND, medium, trace granules, subangular to subrounded; well sorted; moist; light olive brown (2.5Y 5/3). Note: Little odor.		
5 / -5				8.5					
				9.8					
	2	5.0-10.0'	5.0'	2.4			(7.0-10.0') SAND, fine; trace granules, subangular to subrounded; well sorted; wet; light olive brown (2.5Y 5/3). Note: Little odor.		(2.5-15.0') Filter Pack K&E #2
				1.5					(3.0-13.0') 2" Sch 40 PVC 0.010 Slot Well Screen
				1.7					
10 / -10				0.3			(10.0-12.0') SAND, medium; little granules, subangular; well sorted; wet; olive brown (2.5Y 4/4). Note: Little odor.		
				0.2					
	3	10.0-15.0'	5.0'	0.3			(12.0-20.0') CLAY, high plasticity, no dilatancy; dry; very soft; dark gray (2.5Y 4/1).		
				0.3					
				0.3					
15 / -15				0.0					
	4	15.0-20.0'	5.0'	0.0					(15.0-20.0') Bentonite Backfill
				0.0					
20 / -20							End of boring at 20.0' bgs.		

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Remarks: Hand augered to 5.0' bgs.
MW-83/84-29(1-2) collected at 0910.
MW-83/84-29(4-5) collected at 1000.
MW-83/84-29(6-7) collected at 0935.

Date Start: 2/03/2014
Date Finish: 2/03/2014
Drilling Company: Cascade
Driller's Name: John Roberts, James Vanconant
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 11.0'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **MW-83/84-34**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 19 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
				NA			(0.0 - 1.0') CONCRETE.		
				2.1			(1.0 - 5.0') SAND, medium, subrounded to subangular; some silt; some small pebbles, subrounded; little medium pebbles; poorly sorted; moist; brown (10YR 4/3).		
	1	0.0-6.0	6.0	0.6					
				1.3					
				0.4					
5 / -5				0.0			(5.0 - 7.5') SAND and SILT, fine; well sorted; moist; brown (10YR 4/3).		
				2.8			NOTE: Slight sulfur odor from 6.0 to 7.5' bgs.		
	2	6.0-10.0	4.0	3.3			(7.5 - 11.5') CLAY and SILT, medium plasticity, slow dilatancy; medium stiff; moist; brown (10YR 4/4).		
				0.0			NOTE: Transition to gray (10YR 4/1) at 8.5' bgs.		
				0.0					
10 / -10				0.0			NOTE: Wet at 11.0' bgs.		
				0.0			(11.5 - 14.0') SAND, medium, subrounded to subangular; well sorted; wet; light grayish brown (10YR 5/2).		
	3	10.0-15.0	5.0	0.1					
				3.3					
				0.9			(14.0 - 15.0') CLAY, high plasticity, no dilatancy; medium stiff; moist; gray (10YR 4/1).		
15 / -15							End of boring at 15.0' bgs.		

1.0-2.0 bgs (Native Sand)
0.5-4.0' bgs (2.0" Sch 40 PVC Well Casing)
2.0-3.0' bgs (Medium Bentonite Chips)
3.0-15.0' bgs (#1 Global Filter Pack Sand)
4.0-14.0' bgs (2.0" Sch 40, 10-Slot PVC Well Screen)

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Remarks: bgs = below ground surface
btoc = below top of casing

Hand Auger to 6.0' bgs. Approximately 25 gallons of drilling water used.

MW-83/84-34 (6-8) collected at 1300

Date Start: 2/03/2014
Date Finish: 2/03/2014
Drilling Company: Cascade
Driller's Name: John Roberts, James Vanconant
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.0'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

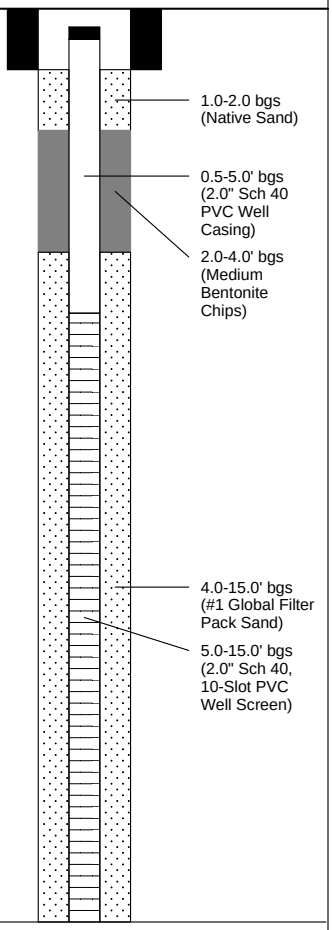
Well/Boring ID: **MW-83/84-35**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 19 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
				NA			(0.0 - 1.0') CONCRETE.		
				0.1			(1.0 - 3.0') SAND, medium, subrounded to subangular; some small pebbles, subrounded; trace large pebbles, subrounded; poorly sorted; moist; dark brownish black (10YR 2/2).		
				0.1			NOTE: Slag-like material from 2.0 to 3.0' bgs.		
	1	0.0-6.0	6.0	0.0			(3.0 - 8.0') SAND, medium, subrounded to subangular; trace small pebbles; well sorted; moist; yellowish brown (2.5Y 4/4).		
				0.0					
5 / -5				0.1					
				0.1					
	2	6.0-10.0	4.0	0.0			(8.0 - 8.3') CLAY, high plasticity, no dilatancy; stiff; moist; gray (10YR 4/2).		
				0.0			(8.3 - 13.5') SAND, medium, subrounded to subangular; well sorted; moist; light grayish brown (10YR 5/2).		
				0.0					
10 / -10				0.0			NOTE: Wet at 10.0' bgs.	▼	
				0.0					
	3	10.0-15.0	5.0	0.0					
				0.0			(13.5 - 15.0') SILT, nonplasticity, slow dilatancy; soft; moist; dark gray (10YR 5/1).		
				0.0					
15 / -15							End of boring at 15.0' bgs.		



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Remarks: bgs = below ground surface
btoc = below top of casing

Hand Auger to 6.0' bgs. Approximately 25 gallons of drilling water used.

MW-83/84-35 (8-10) collected at 1420

Date Start: 2/03/2014
Date Finish: 2/03/2014
Drilling Company: Cascade
Driller's Name: John Roberts, James Vanconant
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.0'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

Well/Boring ID: **MW-83/84-36**

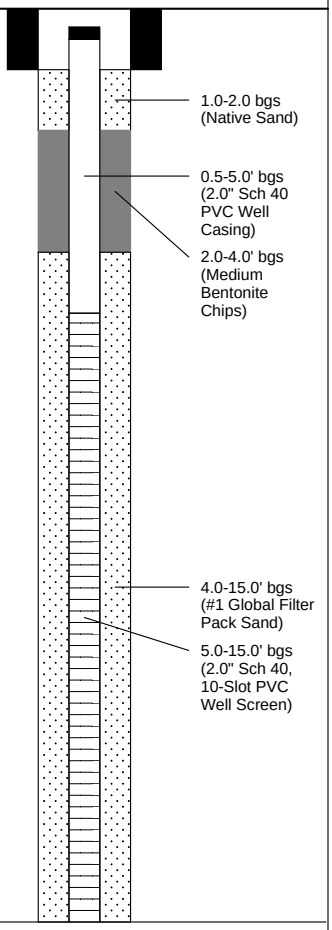
Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 19 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0								
				NA			(0.0 - 1.0') CONCRETE.	
				NA			(1.0 - 2.0') Void Space.	
	1	0.0-6.0	6.0	0.2 0.0 0.1 0.0			(2.0 - 8.0') SAND, medium, subrounded to subangular; some small to medium pebbles, subrounded to subangular; little large pebbles, subangular; trace silt; poorly sorted; moist; dark brownish black (10YR 2/2). NOTE: FILL.	
5 / -5								
	2	6.0-10.0	4.0	0.0 0.1 0.0 0.0			NOTE: Staining and strong odor from 6.5 to 8.0' bgs. (8.0 - 9.0') CLAY and SILT, high plasticity, slow dilatancy; medium stiff; moist; grayish brown (10YR 4/4). (9.0 - 15.0') SAND, medium, subrounded to subangular; well sorted; wet; grayish brown (10YR 5/2).	
10 / -10							NOTE: Wet at 10.0' bgs.	▼
	3	10.0-15.0	5.0	0.0 0.3 0.0 0.0 0.0			NOTE: Staining and slight methane odor from 10.5 to 12.0' bgs.	
15 / -15							End of boring at 15.0' bgs.	

Well/Boring Construction



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Remarks: bgs = below ground surface
btoc = below top of casing

Hand Auger to 6.0' bgs. Approximately 25 gallons of drilling water used.

MW-83/84-36 (6-8) collected at 1520
MW-83/84-36 (10-12) collected at 1525

Date Start: 2/03/2014
Date Finish: 2/03/2014
Drilling Company: Cascade
Driller's Name: John Roberts, James Vanconant
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.0'
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: NA

Descriptions By: A. DeGrandis

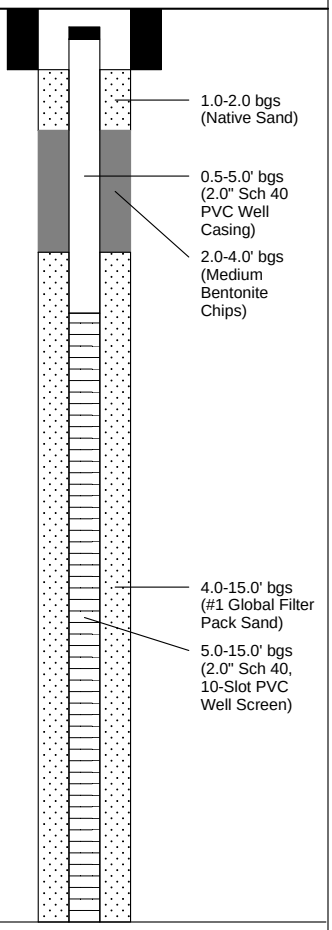
Well/Boring ID: MW-83/84-37

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 19 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0								
				NA			(0.0 - 1.0') CONCRETE.	
				NA			(1.0 - 2.0') SLAG Fill.	
	1	0.0-6.0	6.0	0.0 0.2 0.2 0.0			(2.0 - 8.0') SAND, medium, subrounded to subangular; some small to medium pebbles, subrounded to subangular; little large pebbles, subrounded; little silt; poorly sorted; dry; dark brownish black (10YR 2/2). NOTE: FILL.	
5 / -5								
	2	6.0-10.0	4.0	0.1 0.0 0.0 0.0			(8.0 - 9.0') SAND and SILT, fine; well sorted; moist; light brownish gray (10YR 5/2). NOTE: Staining and odor from 8.0 to 9.0' bgs. (9.0 - 9.5') CLAY and SILT, medium plasticity, slow dilatancy; medium stiff; moist; grayish brown (10YR 5/2). (9.5 - 10.0') CLAY, high plasticity, no dilatancy; stiff; moist; gray (10YR 4/2).	
10 / -10								
	3	10.0-15.0	5.0	0.2 0.3 0.2 0.2 0.2			(10.0 - 12.0') SAND, medium, subrounded to subangular; well sorted; moist; light brownish gray (10YR 5/2). NOTE: Wet at 10.0' bgs. (12.0 - 15.0') SILT, nonplastic, slow dilatancy; soft; moist; dark gray (10YR 5/1).	
15 / -15							End of boring at 15.0' bgs.	



Well/Boring Construction

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Remarks: bgs = below ground surface
btoc = below top of casing

Hand Auger to 6.0' bgs. Approximately 25 gallons of drilling water used.

MW-83/84-37 (8-10) collected at 1640

Date Start/Finish: 4/15/13-4/15/13
Drilling Company: Stearns Drilling
Driller's Name: Brian Marshall
Drilling Method: Sonic
Sampling Method: Hand Auger/ 4" Core Barrel
Rig Type: Mini Sonic

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 20.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **SB-83/84-11**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0 / 0				NA			(0.0-1.5) CONCRETE.	
				0.0			(1.0-6.0') SAND, fine, subrounded; little granules, subangular; trace silt; poorly sorted; dry; black (10YR 2/1). Note: Fill, foundry sand, some debris.	
	1	0.0-5.0	5.0	0.0				
				0.0				
				0.4				
5 / -5				0.0				
				0.0			(6.0-7.0') SAND, medium, subrounded; some granules, subangular; little small pebbles; poorly sorted; moist; dark grayish brown (10YR 4/2).	
				0.1			(7.0-8.3') CLAY, high plasticity, no dilatancy; trace very fine sand; dry; yellowish brown (10YR 4/6). Note: Wet at 8.3' bgs.	
				0.4			(8.3-13.0') SAND, fine to coarse, subrounded to subangular; poorly sorted; wet; dark yellowish brown (10YR 4/6). Note: Wet at 8.3' bgs.	
10 / -10				3.8				
				0.0				
				0.0				
	2	5.0-20.0	15.0	0.0				
				0.0			(13.0-17.0') SILT, non plastic, slow to rapid dilatancy; and SAND, very fine, subrounded; well sorted; wet; dark gray (10YR 4/1).	
15 / -15				0.0				
				0.0				
				0.0				
				0.0			(17.0-20.0') CLAY, high plasticity, no to slow dilatancy; moist; soft; dark gray (10YR 4/1).	
				0.0				
				0.0				
20 / -20				0.0			End of boring at 20.0' bgs.	

Remarks: Hand Auger to 5.0' bgs.

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Date Start: 5/22/2013
Date Finish: 5/22/2013
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Sonic
Sampling Method: 6" Core barrel
Rig Type: Mini Sonic
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 10.0' bgs
Surface Elevation: NA

Descriptions By: T. Stevens

Well/Boring ID: **SB-83_84-17**

Client: RACER Trust

Location: RACER Buick City
Flint, MI

Weather Conditions: 70F, Cloudy

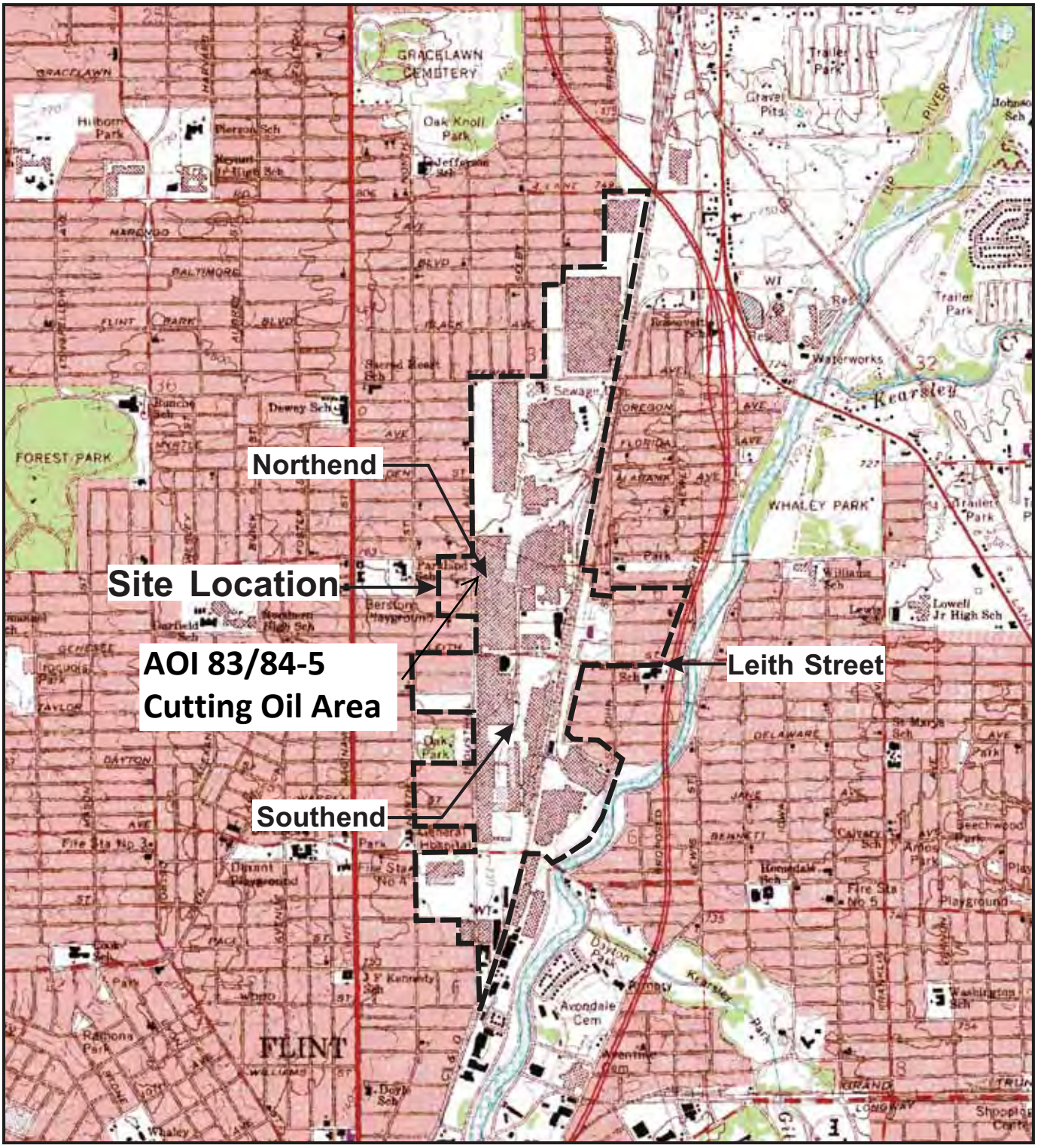
DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0							(0.0-1.0') CONCRETE.		
	1	0.0-5.0	5.0	0.0 0.0 0.0 0.0			(1.0-10.0') SAND, fine to medium, subrounded; some silt, trace clay, trace granules, poorly sorted; dry; yellowish brown (10YR 5/6) to black (10YR 2/1).		
5 / -5	2	5.0-10.0	5.0	0.0 0.0 0.0 0.0 0.0					
10 / -10							End of boring at 10.0' bgs due to refusal.		
15 / -15									
20 / -20									

Remarks: Hand Auger to 5.0' bgs.

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Figures



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quad., Flint North, Mich. (1969, Photorevised 1975).

2000' 0 2000'

Approximate Scale: 1" = 2000'



Area Location

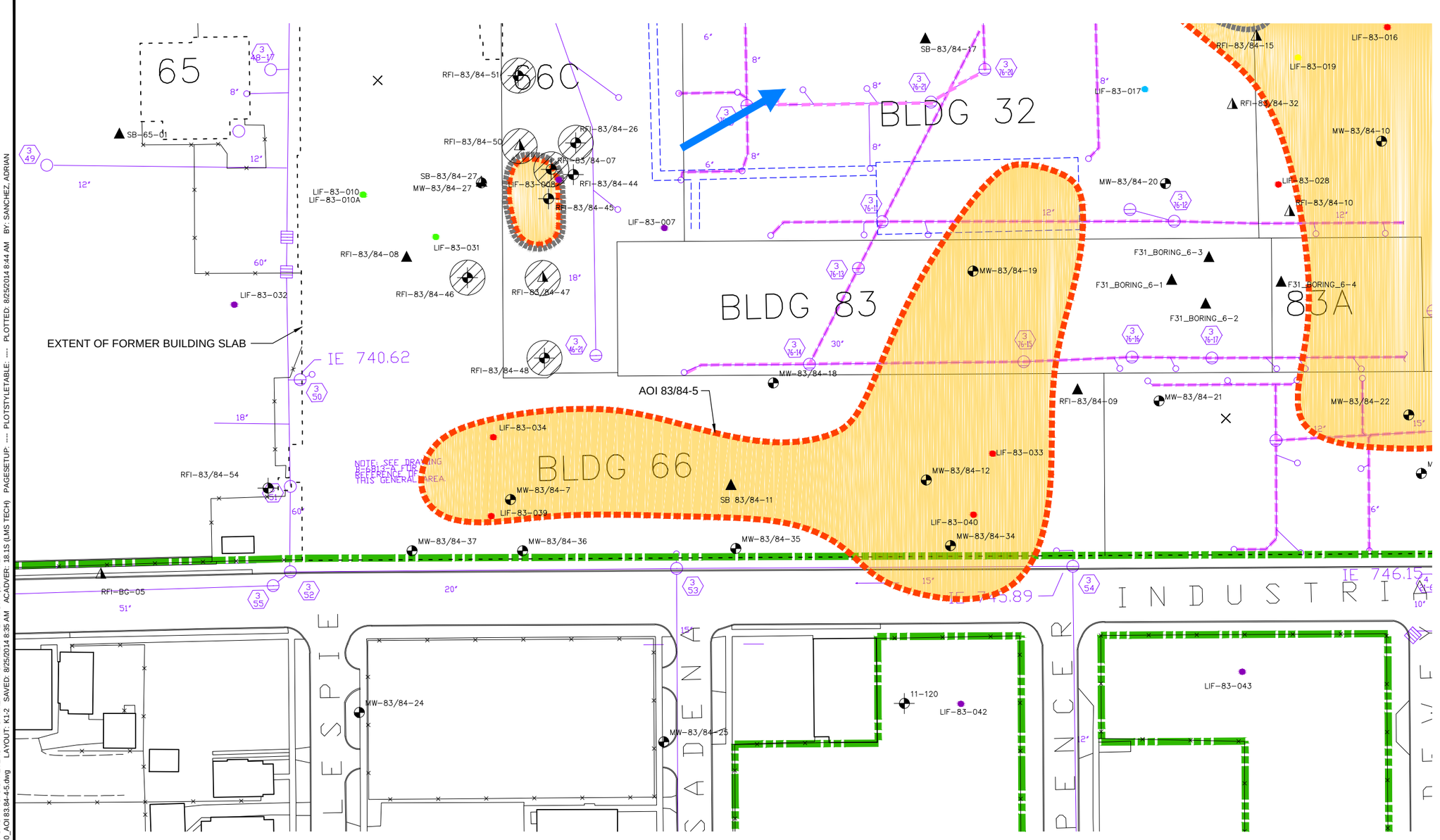
RACER TRUST
BUICK CITY, FLINT, MICHIGAN

SITE LOCATION MAP

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FIGURE
K1-1

03/12/2012 SYRACUSE, NY-ENV/CAD-141-DJHOWES
B0064410/2012/01202/CDR/64410N01.CDR



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- STORM SEWER LINE
- GENERAL GROUNDWATER FLOW DIRECTION
- ABANDONED STORM SEWER LATERALS

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200
- × HAND AUGER REFUSAL (TOP 5')

0 40' 80'

APPROXIMATE SCALE IN FEET

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.. AREAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

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FLINT, MICHIGAN

AOI 83/84-5 INVESTIGATION LOCATIONS AND LNAPL E□TENTS

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FIGURE
□1-2

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF* PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 8/25/2014 8:44 AM BY: SANCHEZ, ADRIAN
C:\Users\alsanchez\Desktop\ACT\B0064410\2014\00206\B64410_AOI 83.84-5.dwg LAYOUT: K1-2 SAVED: 8/25/2014 8:35 AM ACADVER: 18.1S (LMS TECH)
IMAGES: PROJECTNAME: ----

Attachment 2

LNAPL Remedial Decision Tree

Attachment 2 LNAPL Remedial Decision Tree Priority #12 – AOI 83/84-5 Cutting Oil Area



NOTES

(#) NOTES: See Page K2-2

Please see Appendix W for the LNAPL Remedial Decision Tree Template that lists additional sources of pertinent information used in the evaluation of the decision points (i.e. tables).

Attachment 2 Notes

Priority #12 - AOI 83/84-5 Cutting Oil LNAPL Area

Background The Area of Interest (AOI) 83/84-5 Cutting Oil light non-aqueous phase liquid (LNAPL) Area (AOI 83/84-5 LNAPL Area) is located at Building 66 in the former Factory 83/84 Area in the southwestern portion of the Northend of the Site. Historically, the former Factory 83/84 Area, including former Building 66, was primarily used as a gray iron foundry prior to 1981. From 1981 to 2010, the area was historically used for welding, machining, and assembly of torque converters. Former Factory 83/84 Area included various process trenches and pits and a former heat treating tunnel. The presence of AOI 83/84-5 LNAPL Area is presumably due to historical releases associated with operations in this area. There are currently no buildings within the AOI 83/84-5 LNAPL Area. The AOI 83/84-5 LNAPL Area is located beneath the former Factory 83/84 concrete slab.

Geology and Hydrogeology: The soils at AOI 83/84-5 consists of primarily fine to medium sand interbedded with silts and clays to a depth of approximately 17 feet below ground surface (bgs) that are underlain by clay. Depth to groundwater in this area varies and has been measured as shallow as 7.10 feet bgs, as deep as 10.34 feet bgs, and averages around 9 feet bgs. Based on historic fluid level gauging data, groundwater flow in this portion of the Site is generally to the east-southeast.

LNAPL Characteristics: Boring logs in the AOI 83/84-5 LNAPL Area show evidence of LNAPL impacts as shallow as 5 feet bgs and as deep as 12 feet bgs. Thicknesses of product greater than 0.1 feet have been measured at four monitoring wells (MW-83/84-7, MW-83/84-12, MW-83/84-19, and MW-83/84-34). LNAPL has a viscosity of 87.49 centipoise (cp) and a specific gravity of 0.0.906. The LNAPL does not contain polychlorinated biphenyls (PCBs). The LNAPL also contains arsenic at concentrations that exceed the RCRA toxicity characteristic at two locations (MW-83/84-07 and MW-83/84-12); however, TCLP analysis has not been conducted. The AOI 83/84-5 LNAPL Area has been recently identified and due to its proximity to the property boundary, additional sampling will be completed to further delineate the extent of LNAPL to the west and south.

1) *Are unacceptable dissolved phase, vapor phase, or direct contact exposures associated with the LNAPL under any use scenarios?*
   YES – The following potential risk/exposure concerns are associated with the AOI 83/84-5 area:

   - Groundwater surface water interface (GSI): Concentrations of select metals in soil samples collected from AOI 83/84-5 exceed groundwater surface water interface protection (GSIP) criteria. However, based on an evaluation of available Site data there does not appear to be a GSI pathway for the AOI 83/84-5 LNAPL Area. The Outfall 003 laterals located in the vicinity of AOI 83/84-5 have either been bulkheaded or are above the groundwater table.
   - Potential Volatilization to Indoor Air Concerns for Future Structures*:* Theoretically, there is a potential unacceptable vapor phase exposure risk associated with methane generated from biodegradation of the LNAPL for future redevelopment scenarios; however, this will be addressed by the proposed institutional controls.

2) *Do feasible options exist to mitigate unacceptable risk through compositional change?*

   NO – The following is a general discussion regarding the feasibility of various compositional change remediation strategies for the AOI 83/84-5 LNAPL Area:

   - Enhanced dissolution and recovery via surfactant or hot water flushing may enhance LNAPL recovery; however, it is not a viable option based on the presence of nearby City sewers. The use of surfactant would increase mobility and therefore, likely increase the potential for LNAPL infiltration into the Outfall 003 storm sewer.
   - AOI 83/84-5 LNAPL constituents have low volatility rendering remedial technologies that rely on vapor-phase partitioning infeasible on a technical basis.
   - In situ thermal remediation may be technically feasible for the area; however, it is not a viable option based on the proximity of City sewers.

3) *Is there a potential benefit to partial treatment/removal that outweighs costs?*

   NO –Based on the current understanding of risk conditions, the volatilization to indoor air risk can be effectively mitigated through institutional controls.

4) *Is LNAPL migrating or potentially migrating (i.e. mobile along the perimeter)?*

   NO – The AOI 83/84-5 LNAPL Area appears to be stable. This finding is supported by the following lines of evidence:

Attachment 2 Notes

Priority #12 - AOI 83/84-5 Cutting Oil LNAPL Area

- Well Gauging Data: Although the AOI 83/84-5 LNAPL Area has only recently been identified and delineated, monitoring wells located in the vicinity of the LNAPL area have been gauged as part of Site activities and have remained free of LNAPL since monitoring began approximately 10 years ago.
- Age of LNAPL Release: Operations began in this portion of the Site in the 1909 and ceased in this portion of the Site in mid-2000s with the building being demolished in 2011. LNAPL bodies typically stabilize within 2 to 5 years after a release has been stopped (ITRC, 2012).

5) *Is LNAPL mobile within the stable LNAPL perimeter?*

YES – LNAPL is present at four monitoring wells in the AOI 83/84-5 area indicating that the LNAPL is mobile within the stable perimeter.

6) Is LNAPL readily recoverable?

YES – Transmissivity testing completed at MW-83/84-7 was quantified at 1.6 square feet per day (ft^2/day), which exceeds both the ITRC and MDEQ threshold values for recovery. This indicates that LNAPL in the vicinity of MW-84/84-7 may be readily recoverable. However, transmissivity quantified at MW-83/84-19 was 0.08 ft^2/day, which is less than both the ITRC and MDEQ indicating that LNAPL recovery in not practical in this portion of the LNAPL Area. Additional transmissivity testing will be completed in the AOI 83/84-5 area prior to LNAPL removal activities to determine if LNAPL may be readily recoverable in other areas.

7) Will the potential benefit of LNAPL recovery outweigh costs?

YES – While the compositional concerns can be addressed through institutional controls, LNAPL has been identified at the property boundary and may extend off Site. Therefore, LNAPL recovery is recommended to minimize off Site impact.

8) Are controls required?

YES – The following AOI-specific institutional controls, in addition to the Site-wide controls noted in the Report, will be necessary to limit potential for future exposure:

• Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads, as shown on **Figure 5 of the main report** in **Attachment 3**.

Attachment 3

Remedy Recommendations

Priority #12 - AOI 83/84-5 Cutting Oil LNAPL Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 3 – Recommended Remedy

This attachment presents the recommended remedies for the Area of Interest (AOI) 83/84-5 Cutting Oil light non-aqueous phase liquid (LNAPL) Area (AOI 83/84-5 LNAPL Area).

1. Compositional and Saturation Concerns

The LNAPL Decision Tree Analysis presented in **Attachment 2** identified potential volatilization to indoor air as a potential future compositional concern for the AOI 83/84-5 LNAPL Area and mobility as a saturation concern. The potential volatilization to indoor air concern is due to the biodegradation of LNAPL generating methane that could potentially result in indoor air quality concerns for future structures.

2. Remedy Recommendation Rationale

The remedy recommended to address the compositional and saturation concerns associated with the AOI 83/84-5 LNAPL area is institutional controls, which are discussed in detail in Section 3. The rationale for this selection is detailed below:

- Based on an evaluation of available Site data, there does not appear to be a groundwater surface water interface (GSI) pathway for the AOI 83/84-5 LNAPL Area. The Outfall 003 laterals located in the vicinity of AOI 83/84-5 have either been bulkheaded or are above the groundwater table.
- Based on the current understanding of risk conditions, the potential volatilization to indoor air risk for future structures can be effectively mitigated through the Site-wide institutional controls.
- Although the LNAPL at AOI 83/84-5 is mobile within the stable perimeter, transmissivity testing indicates that recovery is not practical in the area of MW-83/84-19. The LNAPL transmissivity quantified at MW-83/84-19 was 0.08 ft^2/day, which is less than the ITRC and MDEQ threshold values for recovery.
- The LNAPL transmissivity at MW-83/84-07 is 1.6 ft^2/day, which is above the ITRC and MDEQ threshold values for recovery, indicating that LNAPL is likely readily recoverable in this portion of the area. Due to the fact that the AOI 83/84-5 area is adjacent to the property boundary, and may

extend off-Site, and that the LNAPL in the vicinity of MW-83/84-7 is likely readily recoverable, LNAPL recovery is recommended in this portion of the area.

- The AOI 83/84-5 LNAPL area has been recently identified and due to its proximity to the property boundary additional sampling and investigation will be completed to further delineate the extent of LNAPL to the west and south and to better define the risks associated with the LNAPL Area.

3. AOI 83/84-5 Remedies

3.1 Completed Interim Measures

As part of a recently completed interim measure (IM) a bulkhead was installed at the Outfall 003 storm sewer later to eliminate the LNAPL infiltration from AOI 83/84-2, as well as any potential infiltration from the AOI 83/84-5 LNAPL Area. Bulkheading activities were completed in this portion of the Site in Spring 2013.

3.2 Additional Remedy Recommendations

The remedy recommended to address the compositional and saturation concerns associated with AOI 83/84-5 LNAPL Area is Institutional Controls. This remedy will reduce exposure risks associated with the AOI 83/84-5 area and be protective of future workers in the long term. However, due to the proximity of the AOI 83/84-5 LNAPL Area to the property boundary LNAPL removal is also recommended.

3.2.1 Institutional Controls

The following AOI-specific institutional controls, in addition to the Site-wide controls noted in the Report, will be necessary to limit potential for future exposure:

- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads, as shown on **Figure 5 of the main report**.

3.2.2 LNAPL Removal

Due to the proximity of the AOI 83/84-5 LNAPL Area to the property boundary LNAPL removal is recommended. Transmissivity data from the north end of AOI 83/84-5 in the vicinity of MW-83/84-7 indicate that LNAPL is likely readily recoverable in this portion of the LNAPL area. Additional delineation, investigation and transmissivity testing will be completed to better delineate the extent of LNAPL to the west and south; to better define the risks; and to aid in determining the portion of the area that may be recoverable. Additional details regarding the specific type of LNAPL recovery will be provided in the basis of design documentation.

Appendix K - Addendum No. 1

February 15, 2016

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MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER

From:
Micki M. Maki

Date:
February 15, 2016

ARCADIS Project No.:
B0064410.2016

Subject:
Remedy Recommendation Report
Appendix K - AOI 83/84-5 Cutting Oil Area - Addendum No.1
Summary of Additional Investigations
RACER Buick City Site, Flint, Michigan

Introduction

This Addendum No. 1 to Remedy Recommendation Report Appendix K presents a summary of investigation data collected at the AOI 83/84-5 Cutting Oil Area located north of Leith Street and east of Industrial Avenue, from March 19, 2014 through December 31, 2015 at the Buick City Site (Site) located in Flint, Michigan.

Summary of Investigation Activities

Additional investigation activities were completed at AOI 83/84-5 to delineate the extent of LNAPL impacts along the property boundary, to evaluate transmissivity, and to evaluate VOC and methane concentrations along the property boundary (**Figure K-A1-1**).

LNAPL and Soil Impact Delineation

Investigation activities included completing four monitoring wells (MW-83/84-38 through MW-83/84-41) and one soil boring (SB-83/84-42) to delineate the extents of LNAPL (**Figure K-A1-1**). Monitoring wells MW-83/84-38 through MW-83/84-41 were installed to delineate LNAPL on Site.

Six soil borings were attempted in Industrial Avenue to investigate off Site LNAPL impacts; however, due to shallow subsurface obstructions only SB-83/84-42 could be completed. A soil sample was collected from SB-83/84-42 from the 2-foot interval above the groundwater table and submitted for laboratory analysis of total petroleum hydrocarbons (TPH) - oil range organics (ORO), diesel range organics (DRO), and gasoline range organics (GRO).

Transmissivity Evaluation

Additional investigation activities conducted at AOI 83/84-5 also consisted of conducting baildown testing and transmissivity evaluations. In June 2015 baildown testing was completed at monitoring wells MW-83/84-12, MW-83/84-19, MW-83/84-34, MW-83/84-36, and MW-83/84-38 to more thoroughly quantify transmissivity at the AOI 83/84-5 LNAPL Area (**Figure K-A1-1**).

Soil Gas Evaluation

Two soil gas sampling probes with shallow and deep screens (SGP-01S/D and SGP-02S/D) were installed on the west side of Industrial Avenue (**Figure K-A1-1**) to evaluate VOC and methane concentrations. During probe installation activities impacted soils were noted at SGP-01S/D; therefore, one soil sample was collected from 5 to 6 feet below ground surface (ft bgs) from each probe location to characterize soils. Two rounds of soil gas samples were collected from each probe and submitted to the laboratory for VOC and methane analysis. Due to the presences of water within the screened interval, a sample could not be collected from SGP-01D during the second sampling event.

Summary of Data Evaluation

LNAPL and Soil Impact Delineation

Monitoring wells MW-83/84-38 and MW-83/84-39 were gauged several times in 2014 and 2015. LNAPL was measured at MW-83/84-38 at a maximum thickness of 3.93 feet, MW-83/84-39 at a maximum thickness of 0.42 feet, and MW-83/84-40 at a maximum thickness of 0.06 feet. LNAPL was not observed at MW-83/84-41.

There was no evidence of impacts at soil boring SB-83/84-42 and TPH-ORO, DRO, and GRO were not detected (**Table K-A1-1**). In addition, the soil samples collected from SGP-01S/D and SGP-02S/D did not detect analytes at concentrations greater than State Default Background Levels and Part 201 criteria.

Transmissivity Evaluation

LNAPL Baildown test results were analyzed using the American Petroleum Institute (API) LNAPL Transmissivity Workbook (API Tool, API 2012) to calculate LNAPL transmissivity within the depth interval at which LNAPL is observed:

- B&R: Bouwer and Rice (1976)/Bouwer (1989), and
- C&J: Cooper and Jacob (1946)/Jacob and Lohman (1952).

Each of these solutions involves different assumptions regarding the response of fluid levels within the well to the removal of LNAPL. The B&R method was developed utilizing the assumption of steady, radial flow of LNAPL to the test well after test initiation, making it ideally suited for tests involving longer LNAPL purging times. The C&J method is better suited for tests involving more rapid LNAPL removal periods, or tests that do not exhibit steady state flow conditions because they incorporate transient storage effects. Additionally, the B&R method requires that there is a consistent relationship between changes in LNAPL drawdown and LNAPL thickness (the j-ratio) (API 2012 and ASTM International 2013). If there is significant variability in the j-ratio over the course of a test, analysis with the B&R method may be not be judged as appropriate, and only the C&J solution may be applied for analysis.

LNAPL transmissivity quantified for each monitoring well, by each method, is presented on **Table K-A1-3**. The results were then compared to the Michigan Department of Environmental Quality (MDEQ) published technical resource materials (MDEQ, 2014) that establish an LNAPL transmissivity 0.5 square feet per day (ft^2/day) as a lower-bound threshold where LNAPL recovery using hydraulic methods (e.g., LNAPL pumping, dual-phase extraction, and LNAPL skimming) is not typically practicable. The transmissivity results at MW-83/84-34 and MW-83/84-36 exceeded the MDEQ threshold, while the transmissivity at MW-83/84-12, MW-83/84-19, and MW-83/84-38 were quantified below the MDEQ threshold.

Soil Gas Evaluation

Soil gas concentrations in samples collected from SGP-01S/D and SGP-02S/D in February and November 2015 (**Table K-A1-2**) did not exceed the Michigan Department of Environmental Quality (MDEQ) vapor intrusion screening levels.

Table K-A1-1

Summary of Additional Soil Investigation
Remedy Recommendation Report Appendix K – AOI 83/84-5 Cutting Oil Area - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GSIP	NDC	NPSIC	NSVIA	NVSICI	SB-83/84-42 6 - 8 11/20/14	SGP-01S/D 5 - 6 02/23/15	SGP-02S/D 5 - 6 02/23/15
VOC										
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	NA	0.09 U	0.06 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	NA	0.09 U	0.06 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	NA	0.09 U	0.06 U
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	NA	0.09 U	0.06 U
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	NA	0.09 U	0.06 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	NA	0.2 U	0.1 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	1.2	- -	20	700	1.2	0.9	NA	0.09 U	0.06 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	890	0.11	0.43	18,000	3.6	5.8	NA	0.09 U	0.06 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	NA	0.09 U	0.06 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	NA	0.09 U	0.06 U
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	NA	0.09 U	0.06 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	NA	0.09 U	0.06 U
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	NA	0.09 U	0.06 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	NA	1.3 U	0.96 U
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	NA	4 U	3 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	- -	- -	- -	- -	- -	- -	NA	4 U	3 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	NA	1.3 U	0.96 U
Benzene	mg/kg	400	4	840	470,000	8.4	45	NA	0.09 U	0.06 U
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	NA	0.09 U	0.06 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	NA	0.09 U	0.06 U
Bromomethane (Methyl bromide)	mg/kg	2,200	0.7	1,000	150,000	1.6	13	NA	0.4 U	0.3 U
Carbon disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	NA	0.4 U	0.3 U
Carbon tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	NA	0.09 U	0.06 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	NA	0.09 U	0.06 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	NA	0.4 U	0.3 U
Chloroform (Trichloromethane)	mg/kg	1,500	7	5,500	1,600,000	38	150	NA	0.09 U	0.06 U
Chloromethane (Methyl chloride)	mg/kg	1,100	- -	7,400	2,600,000	10	120	NA	0.4 U	0.3 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	NA	0.09 U	0.06 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.09 U	0.06 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.09 U	0.06 U
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	NA	0.09 U	0.06 U
Dichlorodifluoromethane (CFC-12)	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	NA	0.09 U	0.06 U
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	NA	0.09 U	0.06 U
Isopropyl benzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	NA	0.09 U	0.06 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.2 U	0.1 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	NA	4 U	3 U

Table K-A1-1

Summary of Additional Soil Investigation
Remedy Recommendation Report Appendix K – AOI 83/84-5 Cutting Oil Area - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GSIP	NDC	NPSIC	NSVIA	NVSICI	SB-83/84-42 6 - 8 11/20/14	SGP-01S/D 5 - 6 02/23/15	SGP-02S/D 5 - 6 02/23/15
Methyl cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.09 U	0.06 U
Methyl tert butyl ether (MTBE)	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	NA	0.4 U	0.3 U
Methylene chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	NA	0.4 U	0.3 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	NA	0.5 UX	0.06 U
N-Propylbenzene	mg/kg	10,000	- -	8,000	590,000	- -	- -	NA	0.09 U	0.06 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.09 U	0.06 U
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	NA	0.09 U	0.06 U
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	NA	0.09 U	0.06 U
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	NA	0.09 U	0.06 U
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	NA	0.09 U	0.06 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.09 U	0.06 U
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	NA	0.09 U	0.06 U
Trichlorofluoromethane (CFC-11)	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	NA	0.2 U	0.1 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	NA	0.2 U	0.1 U
Vinyl chloride	mg/kg	490	0.26	34	890,000	2.8	29	NA	0.2 U	0.1 U
SVOC										
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.33 U	0.33 U
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	NA	0.33 U	0.33 U
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	NA	0.33 U	0.33 U
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	NA	0.33 U	0.33 U
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	NA	0.33 U	0.33 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.67 U	0.67 U
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	NA	0.33 U	0.33 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.33 U	0.33 U
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	NA	0.33 U	0.33 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	NA	0.33 U	0.33 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	NA	0.33 U	0.33 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.33 U	0.33 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.67 U	0.67 U
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	NA	0.33 U	0.33 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.33 U	0.33 U
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	NA	0.67 U	0.67 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.67 U	0.67 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	NA	0.67 U	0.67 U
4-Bromophenyl phenyl ether	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.33 U	0.33 U
4-Chloro-3-methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	NA	0.33 U	0.33 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.67 U	0.67 U

Table K-A1-1

Summary of Additional Soil Investigation
Remedy Recommendation Report Appendix K – AOI 83/84-5 Cutting Oil Area - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GSIP	NDC	NPSIC	NSVIA	NVSICI	SB-83/84-42 6 - 8 11/20/14	SGP-01S/D 5 - 6 02/23/15	SGP-02S/D 5 - 6 02/23/15
4-Chlorophenyl phenyl ether	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.33 U	0.33 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.67 U	0.67 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.67 U	0.67 U
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	NA	0.33 U	0.33 U
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	NA	0.33 U	0.33 U
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	NA	0.33 U	0.33 U
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	NA	0.33 U	0.33 U
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	NA	0.33 U	0.33 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.33 U	0.33 U
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	NA	0.33 U	0.33 U
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	NA	0.33 U	0.33 U
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	NA	0.33 U	0.33 U
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	NA	0.33 U	0.33 U
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	NA	0.33 U	0.33 U
Biphenyl (1,1-Biphenyl)	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.33 U	0.33 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.33 U	0.33 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	NA	0.33 U	0.33 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	10,000	- -	12,000	890,000	- -	- -	NA	0.33 U	0.33 U
Butyl benzylphthalate (BBP)	mg/kg	310	120	120,000	21,000,000	- -	- -	NA	0.33 U	0.33 U
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	NA	0.33 U	0.33 U
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	NA	0.33 U	0.33 U
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	NA	0.33 U	0.33 U
Dibenz(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	NA	0.33 U	0.33 U
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	NA	0.33 U	0.33 U
Diethyl phthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	NA	0.33 U	0.33 U
Dimethyl phthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	NA	0.33 U	0.33 U
Di-n-butylphthalate (DBP)	mg/kg	760	11	87,000	1,500,000	- -	- -	NA	0.33 U	0.33 U
Di-n-octyl phthalate (DnOP)	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	NA	0.33 U	0.33 U
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	NA	0.33 U	0.33 U
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	NA	0.33 U	0.33 U
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	NA	0.33 U	0.33 U
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	NA	0.33 U	0.33 U
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	NA	0.33 U	0.33 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	NA	0.33 U	0.33 U
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.33 U	0.33 U
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	NA	0.33 U	0.33 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	NA	0.33 U	0.33 U

Table K-A1-1

Summary of Additional Soil Investigation
Remedy Recommendation Report Appendix K – AOI 83/84-5 Cutting Oil Area - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GSIP	NDC	NPSIC	NSVIA	NVSICI	SB-83/84-42 6 - 8 11/20/14	SGP-01S/D 5 - 6 02/23/15	SGP-02S/D 5 - 6 02/23/15
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	NA	0.2 U	0.2 U
N-Nitrosodi-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	NA	0.33 U	0.33 U
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	NA	0.33 U	0.33 U
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	NA	0.67 U	0.67 U
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	NA	0.33 U	0.33 U
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	NA	0.33 U	0.33 U
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	NA	0.33 U	0.33 U
PCB										
Aroclor-1016 (PCB-1016)	mg/kg	- -	- -	16	- -	- -	- -	NA	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	- -	- -	16	- -	- -	- -	NA	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	- -	- -	16	- -	- -	- -	NA	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	- -	- -	16	- -	- -	- -	NA	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	- -	- -	16	- -	- -	- -	NA	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	- -	- -	16	- -	- -	- -	NA	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	- -	- -	16	- -	- -	- -	NA	0.33 U	0.33 U
TPH										
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	4 U	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	4 U	NA	NA
Total Petroleum Hydrocarbons (C6-C10) GRO	mg/kg	- -	- -	- -	- -	- -	- -	8 U	NA	NA
Inorganic										
Antimony	mg/kg	- -	94	670	5,900	- -	- -	NA	0.5 U	0.5 U
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	NA	2.92	1.18
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	NA	83.4	34.8
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	NA	0.43	0.26
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	NA	0.2 U	0.2 U
Chromium	mg/kg	- -	- -	- -	- -	- -	- -	NA	6.06	3.07
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	NA	5.62	1.07
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	NA	13.9	4.25
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	NA	9.81	4.43
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	NA	242	158
Mercury	ug/L	- -	- -	- -	- -	- -	- -	NA	NA	NA
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	NA	10.9	2.77
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	NA	0.4 U	0.4 U
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	NA	0.2 U	0.2 U
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	NA	0.2 U	0.2 U
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	NA	10.2	3.24
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	NA	29.7	8.28

Table K-A1-1

Summary of Additional Soil Investigation
Remedy Recommendation Report Appendix K – AOI 83/84-5 Cutting Oil Area - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GSIP	NDC	NPSIC	NSVIA	NVSICI	SB-83/84-42 6 - 8 11/20/14	SGP-01S/D 5 - 6 02/23/15	SGP-02S/D 5 - 6 02/23/15
Miscellaneous										
Total solids	mg/kg	- -	- -	- -	- -	- -	- -	790,000	760,000	880,000

Notes:
mg/kg - milligram per kilogram
ft - feet
CSAT - Soil Saturation Concentration Screening Level
GSIP - Groundwater Surface Water Interface Protection Criteria
NDC - Nonresidential Direct Contact Criteria
NPSIC - Nonresidential Particulate Soil Inhalation Criteria
NSVIA - Nonresidential Soil Volatilization to Indoor Air Inhalation Criteria
NVSICI - Nonresidential Infinite Source Volatile Soil Inhalation Criteria
U – not detected above the reporting limit□
Y - Elevated reporting limit due to high target concentration

Table K-A1-2

Summary of Soil Gas Investigation
Remedy Recommendation Report Appendix K – AOI 83/84-5 Cutting Oil - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	SGVI-NR	SGVI-SS-NR	SGP-01D 4.0-4.5 02/25/15	SGP-01S 1.5-2.0 02/25/15	SGP-01S 1.5-2.0 11/20/15	SGP-02D 5.5-6.0 02/25/15	SGP-02D 5.5-6.0 11/20/15	SGP-02S 1.5-2.0 02/25/15	SGP-02S 1.5-2.0 11/20/15
VOC										
1,1,1-Trichloroethane	ppbv	6,100,000	610,000	3.8 UG [3.8 UG]	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
1,1,2,2-Tetrachloroethane	ppbv	430	43	1.2 UG [1.3 UG]	1.3 U	0.75 U	1.2 U	0.75 U	0.75 U	0.75 U
1,1,2-Trichloroethane	ppbv	2,000	200	1.2 UG [1.3 UG]	1.3 U	0.38 U	1.2 U	0.38 U	0.38 U	0.38 U
1,1-Dichloroethane	ppbv	690,000	69,000	3.8 UG [3.8 UG]	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
1,1-Dichloroethene	ppbv	280,000	28,000	1.2 UG [1.3 UG]	1.3 U	0.75 U	1.2 U	0.75 U	0.75 U	0.75 U
1,2,4-Trichlorobenzene	ppbv	3,000	300	3.8 UG [3.8 UG]	13 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
1,2,4-Trimethylbenzene	ppbv	250,000	25,000	54 JG [57 JG]	8.4	3.8 U	21	3.8 U	3.8 U	3.8 U
1,2-Dibromoethane (Ethylene dibromide)	ppbv	38	3.8	1.2 UG [1.3 UG]	1.3 U	0.38 U	1.2 U	0.38 U	0.38 U	0.38 U
1,2-Dichlorobenzene	ppbv	280,000	28,000	3.8 UG [3.8 UG]	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
1,2-Dichloroethane	ppbv	1,600	160	1.2 UG [1.3 UG]	1.3 U	0.38 U	1.2 U	0.38 U	0.38 U	0.38 U
1,2-Dichloropropane	ppbv	4,800	480	1.2 UG [1.3 UG]	1.3 U	0.75 U	1.2 U	0.75 U	0.75 U	0.75 U
1,3,5-Trimethylbenzene	ppbv	250,000	25,000	16 JG [17 JG]	3.8 U	3.8 U	6.7	3.8 U	3.8 U	3.8 U
1,3-Butadiene	ppbv	- -	- -	3.8 UG [3.8 UG]	13 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
1,3-Dichlorobenzene	ppbv	2,800	280	1.2 UG [1.3 UG]	1.3 U	0.38 U	1.2 U	0.38 U	0.38 U	0.38 U
1,4-Dichlorobenzene	ppbv	4,200	420	1.2 UG [1.3 UG]	2.6 U	0.75 U	1.2 U	0.75 U	0.75 U	0.75 U
1,4-Dioxane	ppbv	- -	- -	3.8 UG [3.8 UG]	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppbv	9,400,000	940,000	5.3 JG [6 JG]	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
2-Hexanone	ppbv	41,000	4,100	13 UG [14 UG]	3.8 U	3.8 U	12 U	3.8 U	3.8 U	3.8 U
2-Methylnaphthalene	ppbv	9,500	950	15 UG [15 UG]	21 U	15 U	15 U	15 U	15 U	15 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppbv	4,100,000	410,000	3.8 UG [3.8 UG]	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Acetone	ppbv	14,000,000	1,400,000	12 UG [13 UG]	39 U	20 U	12 U	20 U	58 UE	20 U
Benzene	ppbv	6,500	650	66 JG [71 JG]	25	0.38 U	78	0.38 U	15	0.38 U
Benzyl chloride	ppbv	680	68	3.4 UG [3.4 UG]	11 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U
Bromodichloromethane	ppbv	1,400	140	1.2 UG [1.3 UG]	1.3 U	0.38 U	1.2 U	0.38 U	0.38 U	0.38 U
Bromoform	ppbv	15,000	1,500	1.2 UG [1.3 UG]	2.6 U	0.75 U	1.2 U	0.75 U	0.75 U	0.75 U
Bromomethane (Methyl bromide)	ppbv	7,100	710	1.1 UG [1.2 UG]	1.2 U	0.75 U	1.1 U	0.75 U	0.75 U	0.75 U
Carbon disulfide	ppbv	1,200,000	120,000	32 JG [30 JG]	12 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Carbon tetrachloride	ppbv	4,600	460	1.2 UG [1.3 UG]	1.3 U	0.38 U	1.2 U	0.38 U	0.38 U	0.38 U
Chlorobenzene	ppbv	84,000	8,400	3.8 UG [3.8 UG]	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Chloroethane	ppbv	21,000,000	2,100,000	3.8 UG [3.8 UG]	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Chloroform (Trichloromethane)	ppbv	15,000	1,500	1.2 UG [1.3 UG]	1.3 U	0.75 U	1.2 U	0.75 U	0.75 U	0.75 U
Chloromethane (Methyl chloride)	ppbv	130,000	13,000	3.8 UG [3.8 UG]	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
cis-1,2-Dichloroethene	ppbv	9,800	980	1.2 UG [1.3 UG]	1.3 U	0.75 U	1.2 U	0.75 U	0.75 U	0.75 U
cis-1,3-Dichloropropene	ppbv	- -	- -	1.2 UG [1.3 UG]	1.3 U	0.75 U	1.2 U	0.75 U	0.75 U	0.75 U
Cyclohexane	ppbv	9,700,000	970,000	11 JG [11 JG]	4.7	3.8 U	5.8	3.8 U	5.4	3.8 U

Table K-A1-2

Summary of Soil Gas Investigation
Remedy Recommendation Report Appendix K – AOI 83/84-5 Cutting Oil - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	SGVI-NR	SGVI-SS-NR	SGP-01D 4.0-4.5 02/25/15	SGP-01S 1.5-2.0 02/25/15	SGP-01S 1.5-2.0 11/20/15	SGP-02D 5.5-6.0 02/25/15	SGP-02D 5.5-6.0 11/20/15	SGP-02S 1.5-2.0 02/25/15	SGP-02S 1.5-2.0 11/20/15
Dibromochloromethane	ppbv	830	83	1.3 UG [1.4 UG]	1.4 U	0.38 U	1.2 U	0.38 U	0.38 U	0.38 U
Dichlorodifluoromethane (CFC-12)	ppbv	56,000,000	5,600,000	1.1 UG [1.2 UG]	1.2 U	0.75 U	1.1 U	0.75 U	0.75 U	0.75 U
Ethyl acetate	ppbv	4,900,000	490,000	3.8 UG [3.8 UG]	13 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Ethylbenzene	ppbv	130,000	13,000	60 JG [63 JG]	12	0.75 U	37	0.75 U	3.4	0.75 U
Hexachlorobutadiene	ppbv	740	74	1.2 UG [1.3 UG]	1.3 U	0.75 U	1.2 U	0.75 U	0.75 U	0.75 U
Hexane	ppbv	1,100,000	110,000	230 JG [290 JG]	370	3.8 U	40	3.8 U	40	3.8 U
Isopropyl alcohol	ppbv	- -	- -	3.8 UG [3.8 UG]	13 U	3.8 UL	3.8 U	3.8 UL	3.8 U	3.8 UL
m&p-Xylene	ppbv	- -	- -	220 JG [230 JG]	38	7.9	130	3.8 U	11	3.8 U
Methyl tert butyl ether (MTBE)	ppbv	4,600,000	460,000	3.8 UG [3.8 UG]	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Methylene chloride	ppbv	180,000	18,000	7.5 UG [7.5 UG]	13 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U
Naphthalene	ppbv	2,800	280	11 UG [11 UG]	13 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
N-Heptane	ppbv	4,700,000	470,000	69 JG [84 JG]	240	3.8 U	37	3.8 U	22	3.8 U
o-Xylene	ppbv	- -	- -	65 JG [70 JG]	11	3.8 U	35	3.8 U	3.8 U	3.8 U
Styrene	ppbv	71,000	7,100	3.8 UG [3.8 JG]	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Tetrachloroethene	ppbv	33,000	3,300	4.6 JG [4.7 JG]	1.3	0.38 U	3.7	0.38 U	0.52	0.38 U
Tetrahydrofuran	ppbv	34,000	3,400	3.8 UG [3.8 UG]	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Toluene	ppbv	7,400,000	740,000	360 JG [380 JG]	96	3.8 U	330	3.8 U	33	3.8 U
trans-1,2-Dichloroethene	ppbv	98,000	9,800	3.8 UG [3.8 UG]	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
trans-1,3-Dichloropropene	ppbv	- -	- -	1.1 UG [1.2 UG]	1.2 U	0.75 U	1.1 U	0.75 U	0.75 U	0.75 U
Trichloroethene	ppbv	2,100	210	1.2 UG [1.3 UG]	1.3 U	0.39 U	1.2 U	0.39 U	0.39 U	0.39 U
Trichlorofluoromethane (CFC-11)	ppbv	56,000,000	5,600,000	3.8 UG [3.8 UG]	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Trifluorotrichloroethane (Freon 113)	ppbv	14,000,000	1,400,000	3.8 UG [3.8 UG]	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Vinyl acetate	ppbv	320,000	32,000	3.8 UG [3.8 UG]	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Vinyl chloride	ppbv	15,000	1,500	1.2 UG [1.3 UG]	1.3 U	0.75 U	1.2 U	0.75 U	0.75 U	0.75 U
Xylene (total)	ppbv	130,000	13,000	280 JG [300 JG]	49	12	160	7.5 U	14	7.5 U
Volatile Organics										
Methane	ppmv	12,500	12,500	2,100 [1,400]	150	21 U	10 U	19 U	10 U	26 U

Notes:
ppbv - parts per billion by volume
ppmv - parts per million by volume
ft - feet
NA - Not Analyzed
U – not detected above the reporting limit
Shaded and bolded results exceed one or more criteria.

SGVI-SS-NR - Nonresidential Vapor Intrusion Shallow Soil Gas (sub-slab) Screening Levels .Samples collected less than or equal to 1.5
SGVI-NR - Nonresidential Vapor Intrusion Deep Soil Gas Screening Levels*
* - SGVI presented in this table are health-based values. The applicable SGVI are based on the higher of the health-based value and the

Table K-A1-3 **2015 LNAPL Transmissivity Evaluation Results**
Remedy Recommendation Report Appendix K - AOI 83/84-5 LNAPL Area - Addendum No.1
RACER Buick City Site, Flint, Michigan

Well ID	Date	Initial LNAPL Thickness (ft)	Test Duration (min)	Final LNAPL Thickness (ft)	LNAPL Transmissivity, T_n (ft^2/day)	
					Bouwer & Rice	Cooper & Jacob
AOI 83/84-5						
MW-83/84-12	6/8/2015	6.08	335	5.91	0.43	0.14
MW-83/84-19	8/6/2013	2.85	4132	3.2	0.08	-
MW-83/84-34	6/8/2015	6.5	185	6.01	0.50	0.59
MW-83/84-36	6/9/2015	1.68	4703	0.89	0.51	1.00
MW-83/84-38	6/9/2015	3.08	3359	2.51	0.16	0.25

General Notes:

Bold Exceeds 0.1 to 0.8 ft^2/day lower criterion range to produce sufficient LNAPL recoverability (ITRC 2009a).

Underlined exceeds 0.5 ft^2/day which is the MDEQ established LNAPL transmissivity lower bound threshold below which LNAPL recovery using hydraulic tool is not typically practical

Acronyms and Abbreviations:

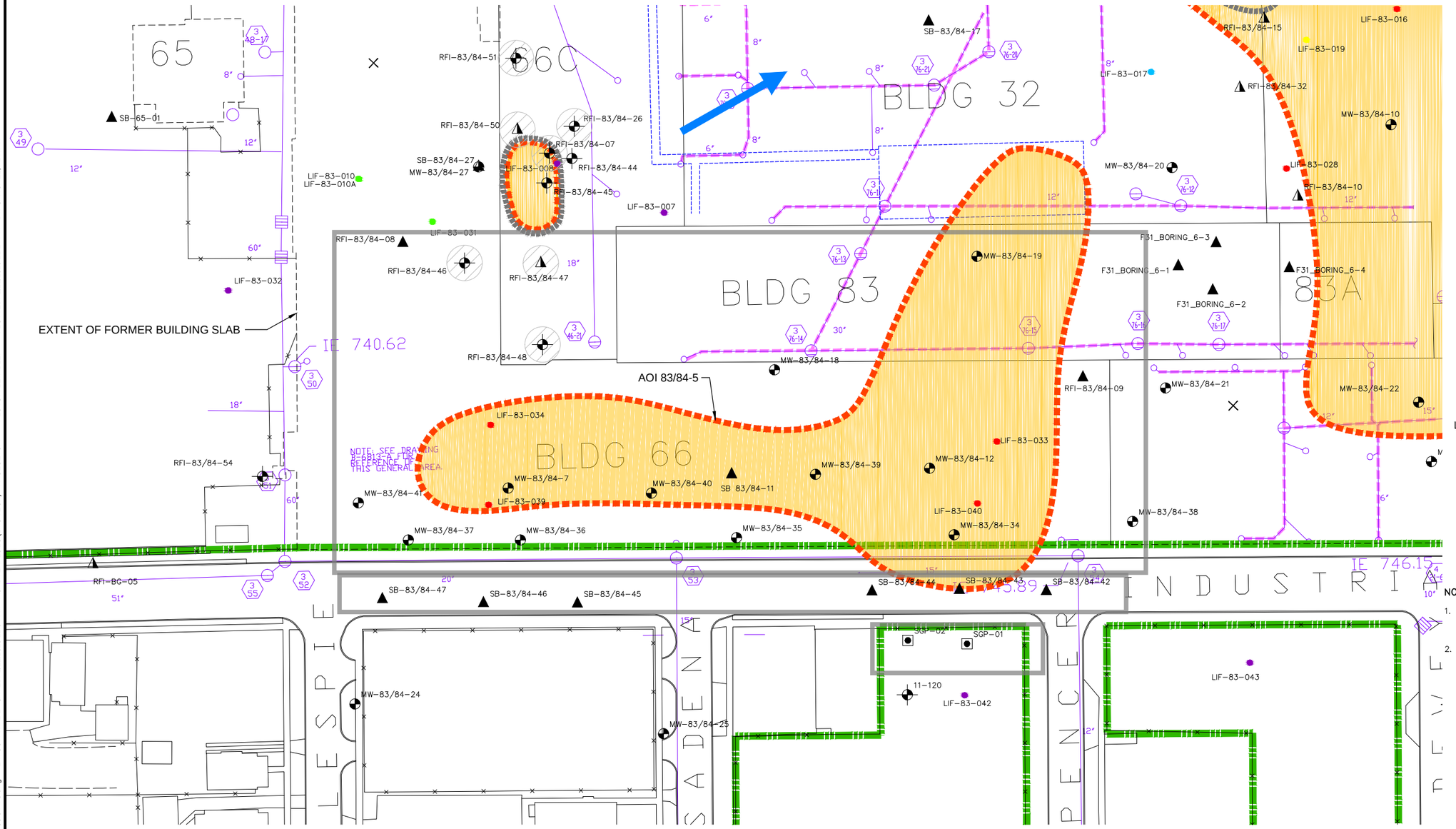
ft = feet

LNAPL = light non-aqueous phase liquid

min = minute

T_n = LNAPL Transmissivity

AOI = Area of Interest


65
66C
BLDG 32
BLDG 83
83A
BLDG 66
INDUSTRIAL
LESPIERANCE
PENCE
SB-65-01
RFI-83/84-51
RFI-83/84-50
RFI-83/84-26
RFI-83/84-07
RFI-83/84-44
RFI-83/84-45
SB-83/84-27
MW-83/84-27
LIF-83-008
LIF-83-010
LIF-83-010A
LIF-83-007
LIF-83-031
RFI-83/84-08
RFI-83/84-46
RFI-83/84-47
RFI-83/84-48
LIF-83-032
EXTENT OF FORMER BUILDING SLAB
IE 740.62
AOI 83/84-5
NOTE: SEE DRAWING R-6813-A FOR REFERENCE OF THIS GENERAL AREA.
LIF-83-034
LIF-83-039
MW-83/84-7
MW-83/84-41
MW-83/84-40
SB 83/84-11
MW-83/84-39
MW-83/84-12
LIF-83-033
LIF-83-040
MW-83/84-34
MW-83/84-35
MW-83/84-36
MW-83/84-37
MW-83/84-38
RFI-83/84-54
RFI-BC-05
SB-83/84-47
SB-83/84-46
SB-83/84-45
SB-83/84-44
SB-83/84-43
SB-83/84-42
MW-83/84-24
MW-83/84-25
SGP-01
SGP-02
11-120
LIF-83-042
LIF-83-043
SB-83/84-17
LIF-83-017
RFI-83/84-15
LIF-83-019
LIF-83-016
RFI-83/84-32
MW-83/84-10
MW-83/84-20
LIF-83-028
RFI-83/84-10
F31_BORING_6-3
F31_BORING_6-1
F31_BORING_6-2
F31_BORING_6-4
MW-83/84-19
MW-83/84-18
RFI-83/84-09
MW-83/84-21
MW-83/84-22
IE 746.15
IE 745.89
RFI-83/84-49
RFI-83/84-52
RFI-83/84-53
RFI-83/84-55
RFI-83/84-56
RFI-83/84-57
RFI-83/84-58
RFI-83/84-59
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RFI-83/84-62
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RFI-83/84-71
RFI-83/84-72
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RFI-83/84-74
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RFI-83/84-84
RFI-83/84-85
RFI-83/84-86
RFI-83/84-87
RFI-83/84-88
RFI-83/84-89
RFI-83/84-90
RFI-83/84-91
RFI-83/84-92
RFI-83/84-93
RFI-83/84-94

Appendix L

AOI 03-1 Quench Oil Area
Remedy Recommendation Memo

ARCADIS of Michigan, LLC
28550 Cabot Drive
Suite 500
Novi
Michigan 48377
Tel 248 994 2240
Fax 248 994 2241

MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER
Chris Peters, ARCADIS
Steve Gaito, ARCADIS

From:
Micki M. Maki
Victoria Stacey

Date:
August 29, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
Priority #13 - AOI 03-1 Quench Oil Area
Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

As part of the light non-aqueous phase liquid (LNAPL) remedy evaluation process, the Site's 17 LNAPL areas were prioritized based on risk. The area of interest (AOI) 03-1 Quench Oil LNAPL Area (AOI 03-1 LNAPL Area) is ranked as Priority #13 with a total potential risk score of 3 (**Table 5 of the main report**). A conceptual site model cross-section is attached (**Figure L-1)** that provides an overview of the AOI 03-1 LNAPL Area impacts and interim measures (IMs).

Historical IMs completed at the AOI 03-1 LNAPL Area include a recovery sump and an LNAPL bailing program. The partial and effective removal of product completed in this area is considered a component of the remedy.

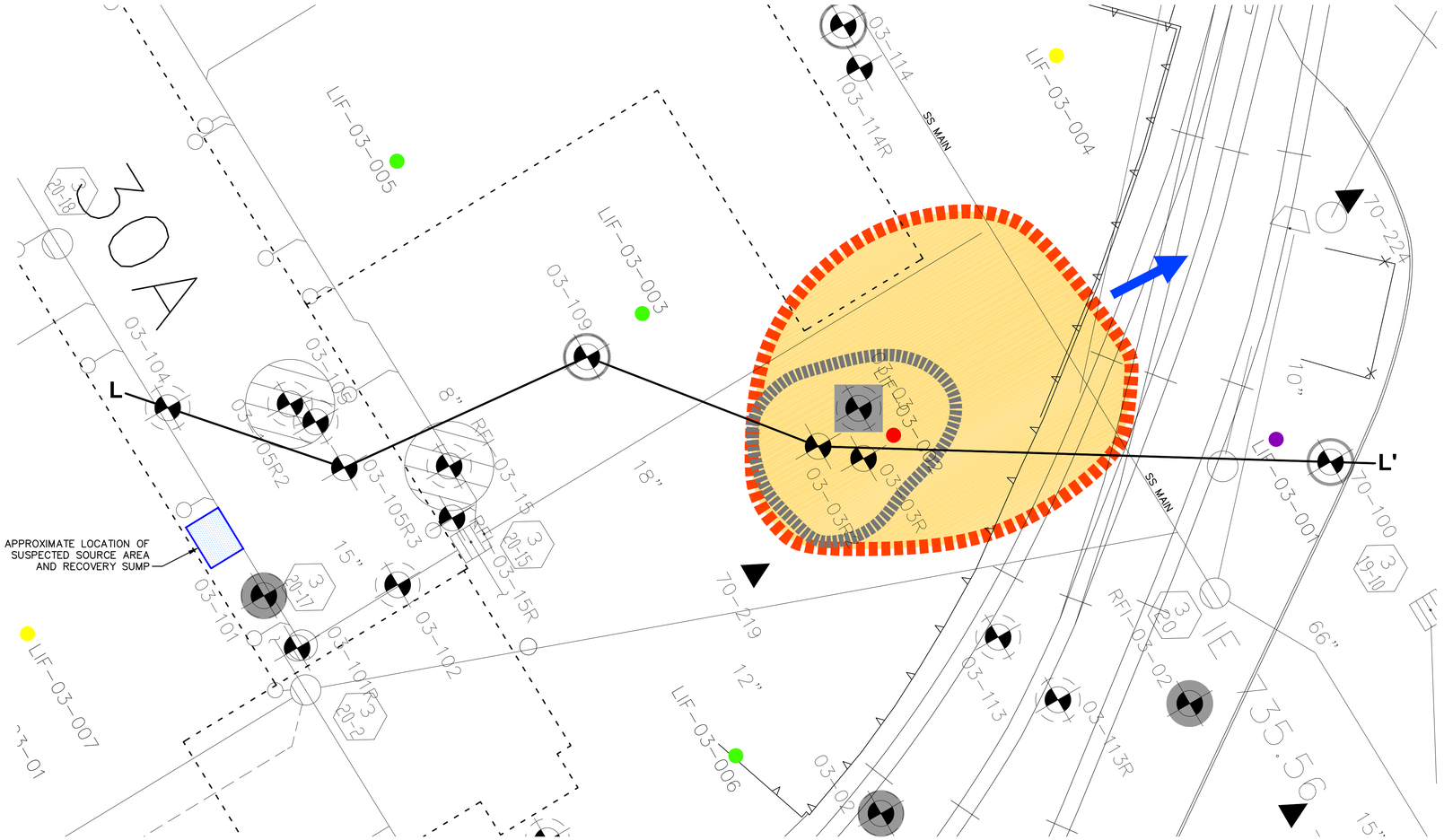
The compositional and saturation concerns identified for the AOI 03-1 LNAPL Area were evaluated in the LNAPL decision tree (**Attachment 2**) and are summarized below:

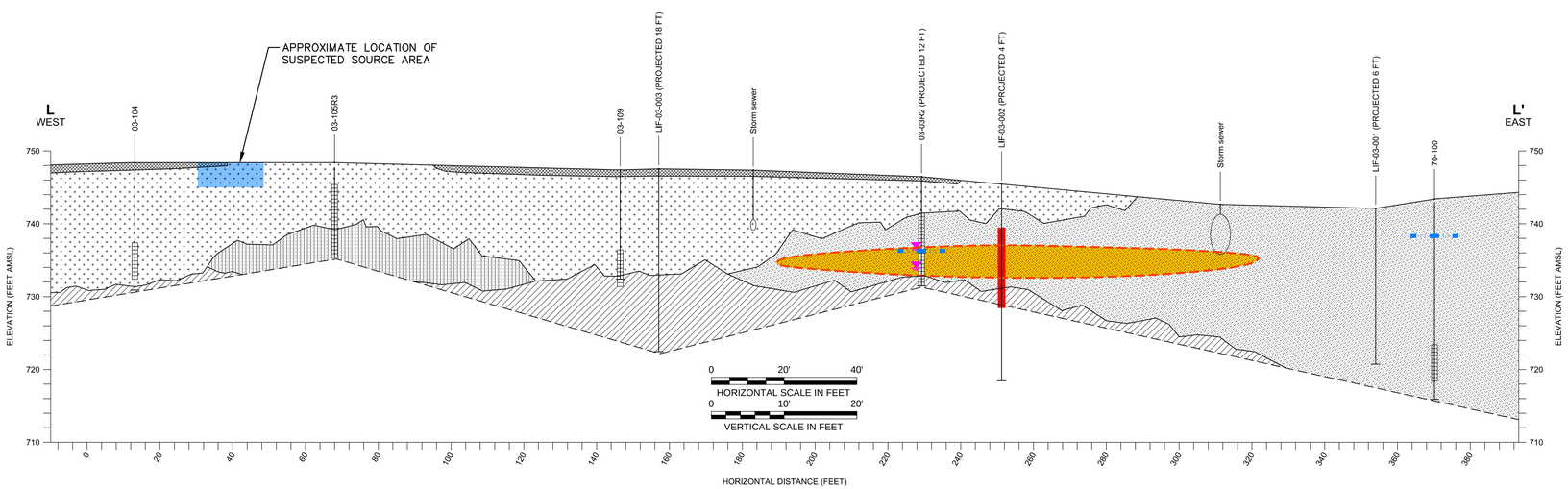
- There are potentially unacceptable groundwater/surface water interface (GSI) and vapor phase concerns associated with the AOI 03-1 LNAPL Area.
- Groundwater levels at the AOI 03-1 LNAPL Area are generally deeper than the invert elevation of the storm sewer; however, groundwater levels do fluctuate and are occasionally above the invert.

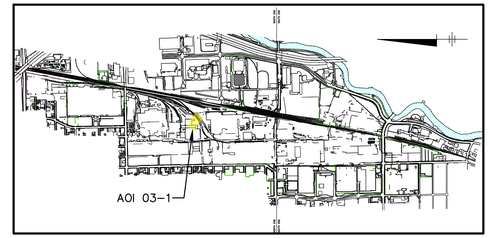
Therefore, the storm sewers in this area may be an intermittent groundwater/surface water (GSI) pathway.

- Although select groundwater and soil samples collected from the AOI 03-1 area have exceeded GSI criteria for select volatile organic compounds (VOCs) or metals (arsenic, beryllium, copper, cyanide, selenium, silver), the monthly NPDES Plus Monitoring Program (NPMP) samples collected from Outfall 003 have not detected VOCs, beryllium, or selenium above GSI criteria.
- Based on the current delineation of the AOI 03-1 LNAPL Area, it appears that the footprint may intersect the Outfall 003 storm sewer main and laterals. As such, a visual inspection of the storm sewer was completed and no evidence of LNAPL infiltration was identified in this portion of the sewer.
- A historic IM addressed the suspected source area for the AOI 03-1 LNAPL Area in the southern portion of Building 30A; therefore, partial and effective LNAPL removal has already been completed and a transition to institutional controls is now appropriate.
- Polychlorinated biphenyls (PCBs) were detected in an LNAPL sample collected from the AOI 03-1 LNAPL plume at a concentration of 6 parts per million (ppm). Due to the nature and extent of PCB impacts, it is requested that the LNAPL impacts at AOI 03-1 be allowed to remain in place and the area be designated as low occupancy [per 761.61(a)(4)(i)(B)].

Based on the current understanding of conceptual site model, the potential risks associated with GSI, PCBs, and vapor phase can be effectively mitigated through institutional controls.







SITE MAP

0 2000' 4000'
SCALE IN FEET

AOI 03-1 □UENCH OIL AREA

□EY LNAPL COMPOSITION AND SATURATION CONCERNS

1) POTENTIAL GSI PATHWAY TO OUTFALL 003
2) POTENTIAL VOLATILIZATION TO INDOOR AIR CONCERNS FOR FUTURE STRUCTURES

COMPLETED INTERIM MEASURES AND RECOMMENDED REMEDIES

R-1) A RECOVERY SUMP ADDRESSED THE SUSPECTED SOURCE AREA FOR THIS PLUME (IM COMPLETED)

R-2) INSTITUTIONAL CONTROLS

NOTES:

1. BASE MAP INFORMATION FROM SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.
2. BASED ON INFORMATION AVAILABLE AS OF 03/19/14.

RACER TRUST
BUICK CITY, FLINT, MICHIGAN

AOI 03-1
CONCEPTUAL SITE MODEL
CROSS SECTION L-L□

ARCADIS

FIGURE
L-1

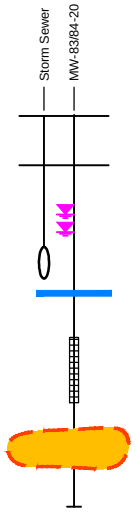
CITY:SYRACUSE DIV/GROUP:ENV DB:A.SANCHEZ LD:AS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\alsanchez\Desktop\ACTIB0064410\2014\00206\Xsections\64410V01.DWG LAYOUT: L1-1 SAVED: 8/20/2014 6:38 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: BBL-FULL.CTB PLOTTED: 8/25/2014 1:32 AM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME: ----

LEGEND

- PROPERTY BOUNDARY
- HISTORICAL LNAPL EXTENT
- CURRENT LNAPL EXTENT
- STORM SEWER
- ABANDONED STORM SEWER LATERAL
- APPROXIMATE LOCATION OF RECOVERY TRENCH
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- A1 — A1 LINE OF SECTION
- RFI MONITORING WELL LOCATION
- MONITORING WELL LOCATION
- RECOVERY WELL (NAPL) LOCATION
- PIEZOMETER LOCATION
- SOIL BORING LOCATION
- DECOMMISSIONED WELL LOCATION
- EVIDENCE OF PRODUCT OBSERVED IN SOIL

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

- <5
- 5–10
- 10–100
- 100–200
- >200
- HAND AUGER REFUSAL (TOP 5')
- GROUNDWATER SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- GROUNDWATER SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- SOIL SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES DO NOT EXCEED APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES EXCEED ONE OR MORE APPLICABLE CRITERIA



- WELL/BORING ID
- EXISTING GRADE
- LITHOLOGICAL CONTACT (DASHED WHERE INFERRED)
- NAPL LEVEL (HISTORIC HIGH AND LOW LEVELS)
- WATER TABLE
- WELL SCREEN
- APPROXIMATE EXTENT OF LNAPL
- WELL/BORING BOTTOM
- ASPHALT
- CONCRETE
- CLAY
- FILL
- GRAVEL
- INTERBEDDED SAND AND CLAY
- INTERBEDDED SANDS AND SILTS
- INTERBEDDED SILT AND CLAY
- SAND
- SILT
- SILTY SAND

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

CROSS SECTION LEGEND

ARCADIS

FIGURE
L-2

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB0064410\2014\00206\Xsections\64410V01.DWG LAYOUT: 1A SAVED: 7/11/2014 11:58 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: BBL-FULL.CTB PLOTTED: 7/11/2014 1:56 PM BY: SANCHEZ, ADRIAN
XREFS: IMAGES: PROJECTNAME: ---
Xr64410X3Bsp
Xr64410XDrainage
Xr64410X01
Xr64410XLIFsp2
Xr64410X01
Xr64410XAOI
Xr64410XLNAPL

Attachment 1

LNAPL Conceptual Site Model

Priority #13 - AOI 03-1 Quench Oil Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 1 - Conceptual Site Model

This attachment presents a conceptual site model (CSM) for the Area of Interest (AOI) 03-1 Quench Oil LNAPL Area (AOI 03-1 LNAPL Area), which is located at the Buick City Site (Site) located in Flint, Michigan (**Figure L1-1**).

1. Background

The AOI 03-1 LNAPL Area is located at the Northend of the Site south of former Factory 03 and is likely associated with a historic release in the southern portion of Building 30A. Light non-aqueous phase liquid (LNAPL) believed to be related to this release was identified at downgradient monitoring well 03-03 (and replacement wells 03-03R and 03-03R2). Historically, LNAPL associated with the AOI 03-1 area was also identified in monitoring wells 03-01, 03-105R, (and its replacement well 03-105R2), and RFI-03-15R; however, LNAPL has not been detected in these wells since 2003-2004. In recent years, the AOI 03-1 LNAPL Area has only accumulated to measurable thicknesses (0.22 feet) in one monitoring well (03-03R2), which is presented on **Figure L1-2**.

Investigation data previously presented in Site reports are not re-presented in this memo. However, pertinent AOI 03-1 investigation data that has not previously been presented in a Site report is attached.

2. Former Interim Measures

2.1 Recovery Wells

In 1991, a roof drain/storm sewer sump located in the southern portion of Building 30A was identified to accumulate free product, determined to be S-7 quench oil. As a result, the sump was converted into a collection sump with a belt skimmer to recover this oil. This recovery system was successful in recovering free-phase LNAPL proximate to the recovery sump; hence, operation of the system was discontinued. The amount of LNAPL removed by this system is unknown.

2.2 LNAPL Monitoring and Bailing Program

From 2003 to 2005, eleven AOI 03-1 monitoring wells were monitored and manually bailed as part of the Site-wide LNAPL monitoring program. During this three year program, a total of one gallon of product was removed, primarily from monitoring well 03-03R.

3. AOI 03-1 Site Setting and Data Summary

This section provides a summary of the geology, hydrogeology, analytical data, and LNAPL characteristics and extent of impacts for the AOI 03-1 LNAPL Area.

Figure L1-2 presents the locations of the existing and abandoned monitoring wells and soil borings in the AOI 03-1 area.

3.1 AOI 03-1 Geology and Hydrogeology

- *Geology:* The AOI 03-1 boring logs indicate that the soils are primarily Silt and Sand from 0 to 16 feet below ground surface (bgs) with a Sand layer from 10 to 12 feet bgs as shown on the CSM (**Figure L-1)**. The logs for monitoring wells 03-03, 03-105, and RFI-03-15 show visual evidence of impacts and/or positive oil shake tests ranging from 4.5 to 16 feet bgs.

- *Groundwater/LNAPL Levels:* Nine monitoring wells (03-03R2, 03-101R, 03-105R3, 03-110, 03-115R2, RFI-03-02, RFI-03-03, RFI-03-15R, and 70-100) in the vicinity of the AOI 03-1 area have been gauged to monitor the extent of the LNAPL. Depth to groundwater (or LNAPL, where present) in this area ranges from 8 to 10 feet bgs. Historically, LNAPL was detected intermittently at monitoring wells 03-01R and 03-105R; however, since the completion of the Quarterly LNAPL Monitoring Program in 2005 LNAPL has only been detected at monitoring well location 03-03R2. The greatest thickness of LNAPL was detected in 2008 with 2.94 feet measured. During the 2010 annual groundwater event, no LNAPL was detected at 03-03R; and the well was subsequently damaged/buried during demolition activities. Replacement well 03-03R2 was installed in October 2013 and 0.22 feet of LNAPL was measured on November 2013. The boring log for 03-03R2 is attached to this memo.

  Groundwater flow in this portion of the Site is generally to the south. All pertinent groundwater data is presented in **Appendix X**.

3.2 Groundwater and Soil Analytical Data

Analytical data were compared to applicable Michigan Part 201 non-residential criteria. Pertinent analytical data are presented in **Appendix X**.

3.2.1 Groundwater Analytical Data

A review of groundwater data in the AOI 03-1 LNAPL area indicated that three monitoring wells detect select metals at concentrations that exceed groundwater/surface water interface (GSI) criteria. The groundwater sample collected from well RFI-03-02 exceeds criteria for arsenic (11/10 µg/L), beryllium (43/32 µg/L), cyanide (7.1-7.4/5.2 µg/L), selenium (190/5 µg/L) and silver (2.1/0.2 µg/L). In addition, silver was detected above GSI criteria at monitoring well 03-02 (1.7/0.2 µg/L) and arsenic was detected above GSI criteria at 03-101 (29/10 µg/L). However, there has been insufficient LNAPL present at 03-03R2 to perform metals analysis so it is unknown whether the LNAPL is the source of the metal impacts.

3.2.2 Soil VOC, SVOC and Metals Analytical Data

During recent investigation activities, three soil samples were collected during installation of the 03-03R2 replacement well and submitted for laboratory analysis. Select volatile organic compounds (VOCs) and metals were detected at concentrations that exceed the groundwater/surface water protection (GSIP) criteria. The VOCs detected above criteria include 1,2,4-trimethylbenzene (94.8/0.57 mg/kg), 1,2-dichlorobenzene (0.4/0.28 mg/kg), ethylbenzene (0.5/0.36 mg/kg) and naphthalene (4.01/0.73 mg/kg). The metals detected above criteria include arsenic (7.24/4.6 mg/kg), copper (173/130 mg/kg), mercury (0.19/0.05 mg/kg) and selenium (0.93/0.4 mg/kg). All pertinent soil data is presented in **Appendix X**.

3.2.3 GSI Evaluation

As discussed in further detail in **Appendix BB**, GSI exceedances in the Site storm sewers are being evaluated by the ongoing NPDES Plus Monitoring Program (NPMP). At AOI 03-1, the storm sewer represents an intermittent pathway as groundwater levels in this portion of the Site are generally deeper than the invert elevation of the storm sewer; however, levels do fluctuate and are occasionally above the invert. The monthly NPMP samples collected from the Outfall 003 storm sewer (which services this portion of the Site) have not exhibited concentrations of beryllium, copper, selenium or VOCs above GSI criteria at the downgradient monitoring point.

Data evaluations completed to date suggest that the majority of the metals impacts in the Outfall 003 storm sewer can be addressed a mixing zone based remedy; however, additional data collection and evaluation is needed.

3.2.4 Soil PCB Analytical Data

A review of the analytical data in the AOI 03-1 area indicates that PCBs were not detected in the soil samples collected from 03-03R2.

3.2.5 Vapor Intrusion Evaluation

Based on the fact that, no structures are present at the AOI 03-1 LNAPL Area and the depth to LNAPL/groundwater is greater than 10 feet bgs, the MDEQ Part 201 inhalation criteria are appropriate for comparison. Soil and groundwater concentrations did not exceed applicable screening levels.

3.3 LNAPL Characteristics

- *LNAPL Analytical Data:* LNAPL present at the AOI 03-1 LNAPL Area consists primarily of quench oil. Additional analysis indicate that:

  - The LNAPL has a viscosity of 26 centipoise (cp), an interfacial tension of 2.8 dynes/centimeter, and a specific gravity ranging from 0.90.

  - An LNAPL sample collected from 03-03R2 detected PCBs at a concentration of 6 ppm.

  For reference, the viscosity (at 100 degrees Fahrenheit) of olive oil is 43.2 cp and honey is 73.6 cp (Ingersoll-Rand, 1981). All pertinent LNAPL data is presented in **Appendix X**.

- *LIF Data:* Ten laser-induced fluorescence (LIF) borings were completed in the vicinity of the AOI 03-1 LNAPL area. The LIF response in this area is consistent with the known LNAPL type, quench oil. One boring (LIF-03-002) located within the AOI 03-1 LNAPL footprint exhibited LIF responses above background from 7 to 15 feet. **Figure L1-2** presents the results of the LIF investigation.

- *Transmissivity:* Transmissivity testing has not been completed at the AOI 03-1 LNAPL Area because there is insufficient LNAPL present to conduct transmissivity testing at this time.

- *Natural Source Zone Depletion (NSZD):* In June 2013, NSZD sampling was completed at one location, adjacent to monitoring well 03-03R, to establish ongoing natural attenuation rates of LNAPL at the AOI 03-1 LNAPL Area. The laboratory analytical results indicate that LNAPL is being depleted at a rate of approximately 400 gallons per acre per year. The NSZD data are presented in **Table 3B of the main report**.

3.4 Extent of LNAPL

During the RCES preparation, the AOI 03-1 LNAPL Area was calculated based on available Site data. The footprint of the area containing approximately 0.5 ft or greater of LNAPL as measured in monitoring wells was estimated to be approximately 1,700 square feet. As shown on **Figure L1-2**, the AOI 03-1 LNAPL Area has been re-drawn (as discussed in Section 2.1.3 of the main report) and the current extent of LNAPL is approximately 8,800 square feet. LIF boring LIF-03-002, which was completed within the footprint of the AOI 03-1 LNAPL area, detected impacts from 7 to 15 feet bgs. The soil borings completed in this area indicated visual evidence of impacts and/or positive oil shake tests from 4.5 to 16 feet bgs.

ARCADIS

Boring Logs

Date Start: 10/17/13
Date Finish: 10/17/13
Drilling Company: Cascade
Driller's Name: Steve Gross, Steve Argue
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 11.0' bgs
Water Level Finish (ft. btoc.): 11.44' btoc

Northing: 565214.67
Easting: 13306117.80
Casing Elevation: 746.60

Borehole Depth (ft. bgs.): 17.0' bgs
Surface Elevation: 746.90

Descriptions By: A. Richmond

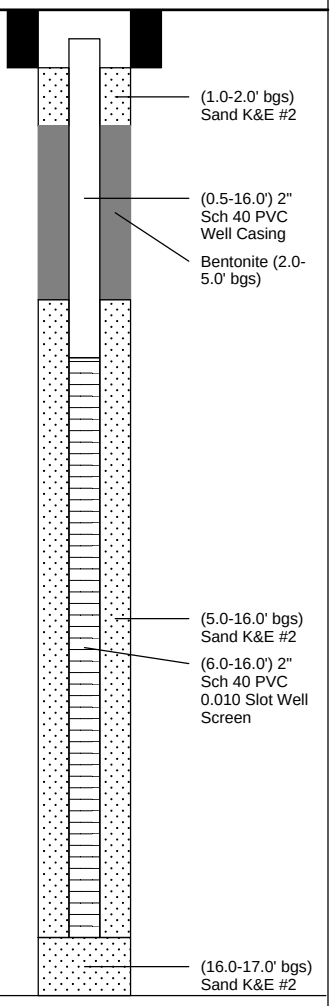
Well/Boring ID: **03-03R2**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy 54

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 746.90							(0.0-0.5') CONCRETE.	
745				1.9			(0.5-2.0') SAND, fine, some silt; trace granules, subangular to subround; poorly sorted; very dark brown (10YR 2/2). Note: Concrete blocks from 0.5 to 2.0' bgs.	
	1	0.0-5.0	5.0	81.4			(3.0-5.0') SAND, fine, little silt; little medium pebbles, angular; poorly sorted; dry; very dark brown (10Y 2/2). Note: Moderate odor from 3.0 to 4.0' bgs. Note: Concrete blocks from 3.0 to 5.0' bgs.	
5				0.9			(5.0-11.0') SAND, fine, little silt; trace large pabbles, subangular to subround; poorly sorted; dry; very dark brown (10YR 2/2). Note: Concrete blocks from 5.0 to 11.0' bgs.	
740	2	5.0-10.0	5.0	1.6				
10								
735				4.9			(11.0-12.0') SAND, fine, some silt; poorly sorted; wet; black (10YR 2/1). Note: Strong odor and staining from 11.0 to 12.0' bgs.	
	3	10.0-15.0	5.0	50.8			(12.0-14.0') SILT, nonplastic, no dilatency; dry; stiff; black (10YR 2/1). Note: Transition to black (5Y 2.5/2) at 13.0' bgs. Strong odor and staining from 12.0' to 14.0' bgs.	
				62.4			(14.0-16.0') SAND, fine , little silt; little medium pebbles, subangular; trace large pebbles, angular; poorly sorted; wet; dark gray (5Y 4/1). Note: Strong odor and staining from 14.0 to 15.0' bgs.	
15				8.1				
730	4	15.0-17.0	2.0	3.1			(16.0-17.0') CLAY, high plasticity, no dilatency; little medium pebbles, subround; dry; stiff; dark gray (2.5Y 4/1).	
							Note: End of boring at 17.0' bgs.	
20								



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Remarks: bgs = below ground surface
btoc = below top of casing

Hand auger from 0.5 to 2.0' bgs and 3.0 to 4.0' bgs.
03-03R2(3-4) collected at 1200
03-03R2(12-14) collected at 1215
03-03R2(16-17) collected at 1300

Date Start: 9/13/13
Date Finish: 9/13/13
Drilling Company: Cascade
Driller's Name: Ralph Winn, Dan O'Mara
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 565269.881
Easting: 13305856.05
Casing Elevation: 748.309

Borehole Depth (ft. bgs.): 15.0' bgs
Surface Elevation: 748.639

Descriptions By: D. Shaw

Well/Boring ID: MW-03-01

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 60F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0.0-5.0	5.0	0.1			(0.0 - 0.5') CONCRETE.		Protective Casing
				0.1			(0.5 - 15.0') SAND, very fine to fine, little medium sand, well sorted; dry; yellowish brown.		Bentonite (1-3' bgs)
				0.2					
				0.3					
				1.0			Note: Transition to black (10YR 2/1) with moderate odor at 4.5' bgs.		
5 / -5	2	5.0-15.0	7.5	1.0					2" Sch 40 PVC well casing (0.2-15' bgs)
				1.0					
				1.0					
				1.0					Sand Pack (3-15' bgs)
				1.0					
10 / -10				1.0			Note: Wet at 10.0' bgs with strong odor and possible product.	▼	2" Sch PVC 10 slot well screen (5-15' bgs)
				0.5			Note: Transition to grayish brown at 11.5' bgs.		
				0.0					
				0.2					
15 / -15				0.1			Note: End of boring at 15.0' bgs.		

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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 5.0' bgs.

Date Start: 9/13/13
Date Finish: 9/13/13
Drilling Company: Cascade
Driller's Name: Ralph Winn, Dan O'Mara
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: 565264.87
Easting: 13305742.724
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0' bgs
Surface Elevation: 748.511

Descriptions By: D. Shaw

Well/Boring ID: **SB-03-02**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 60F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
				NA			(0.0 - 1.0') CONCRETE.		(0.0-1.0') CONCRETE
				0.5			(1.0 - 15.0') SAND, very fine to fine, trace medium sand, well sorted; dry; yellowish brown.		
	1	0.0-5.0	4.0	0.9					
				0.8					
				0.5					
5 / -5				0.0					
				0.2					
				0.3					(1.0-15.0') Bentonite
				0.5			Note: Trace black (10YR 2/1) staining from 8.0 to 10.0' bgs.		
				0.5			Note: Wet at 9.0' bgs.		
10 / -10	2	5.0-15.0	6.66	0.5					
				0.2					
				0.0					
				0.0					
15 / -15				0.0			Note: End of boring at 15.0' bgs.		

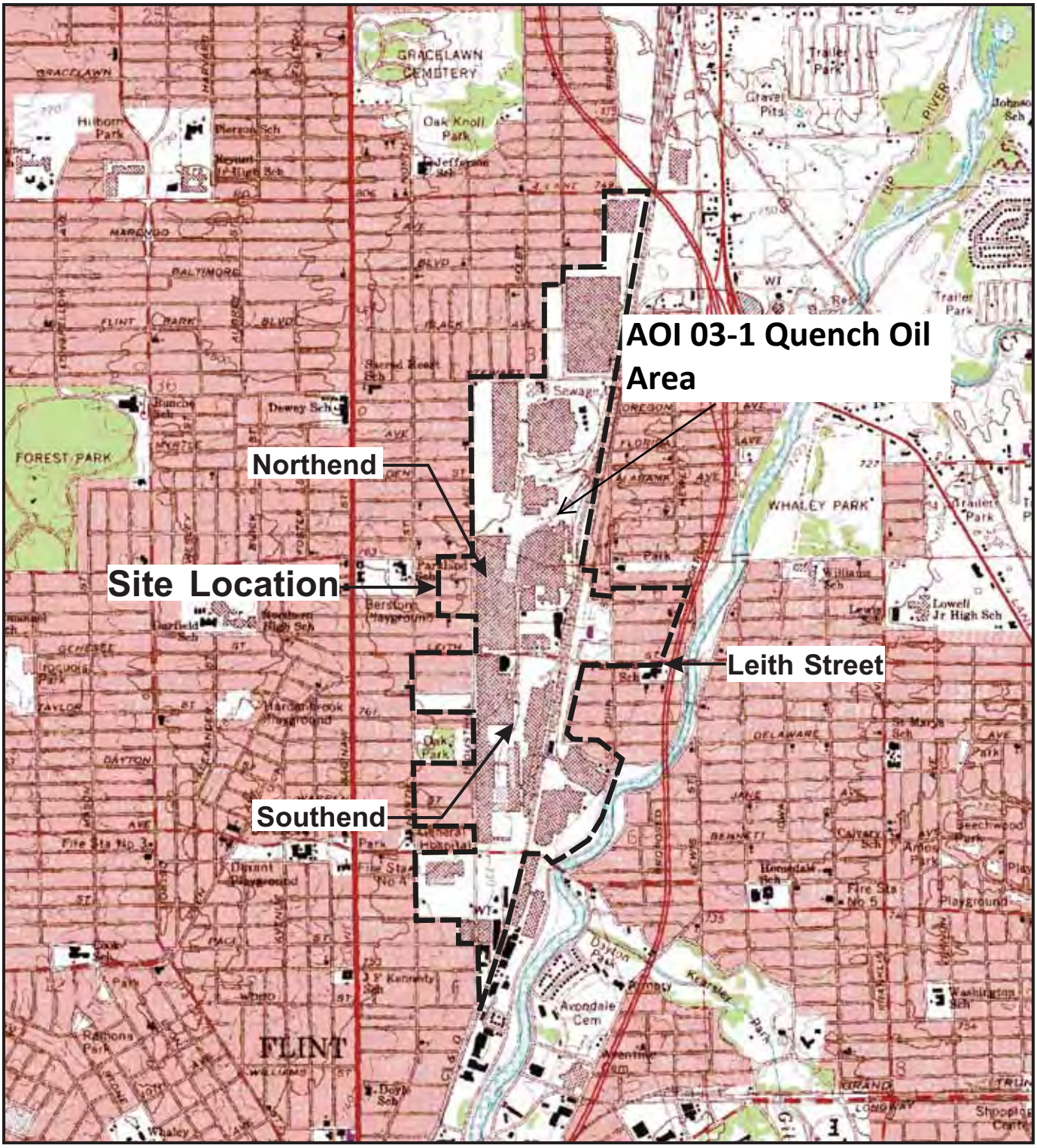
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Remarks: bgs = below ground surface
btoc = below top of casing

Hand auger to 5.0' bgs.

ARCADIS

Figures



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quad., Flint North, Mich. (1969, Photorevised 1975).

2000' 0 2000'

Approximate Scale: 1" = 2000'



Area Location

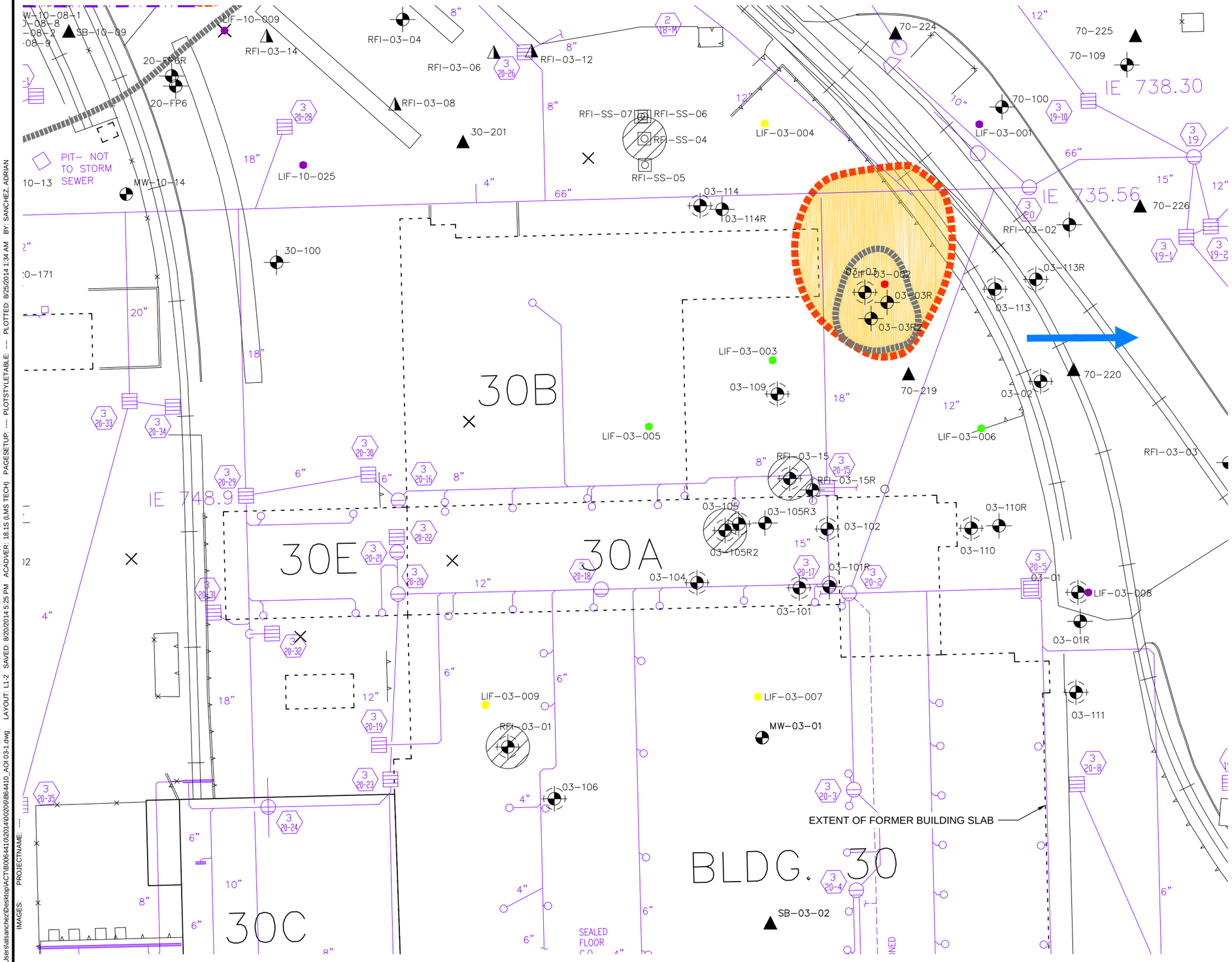
RACER TRUST
BUICK CITY, FLINT, MICHIGAN

SITE LOCATION MAP

ARCADIS

FIGURE
L1-1

03/12/2012 SYRACUSE, NY-ENV/CAD-141-DJHOWES
B0064410/2012/01202/CDR/64410N01.CDR



LEGEND:

- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- DEMOLISHED BUILDING
- STORM SEWER LINE
- GENERAL GROUNDWATER FLOW DIRECTION

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200
- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.. AREAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 30' 60'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 03-1
INVESTIGATION LOCATIONS AND LNAPL E□TENTS

ARCADIS

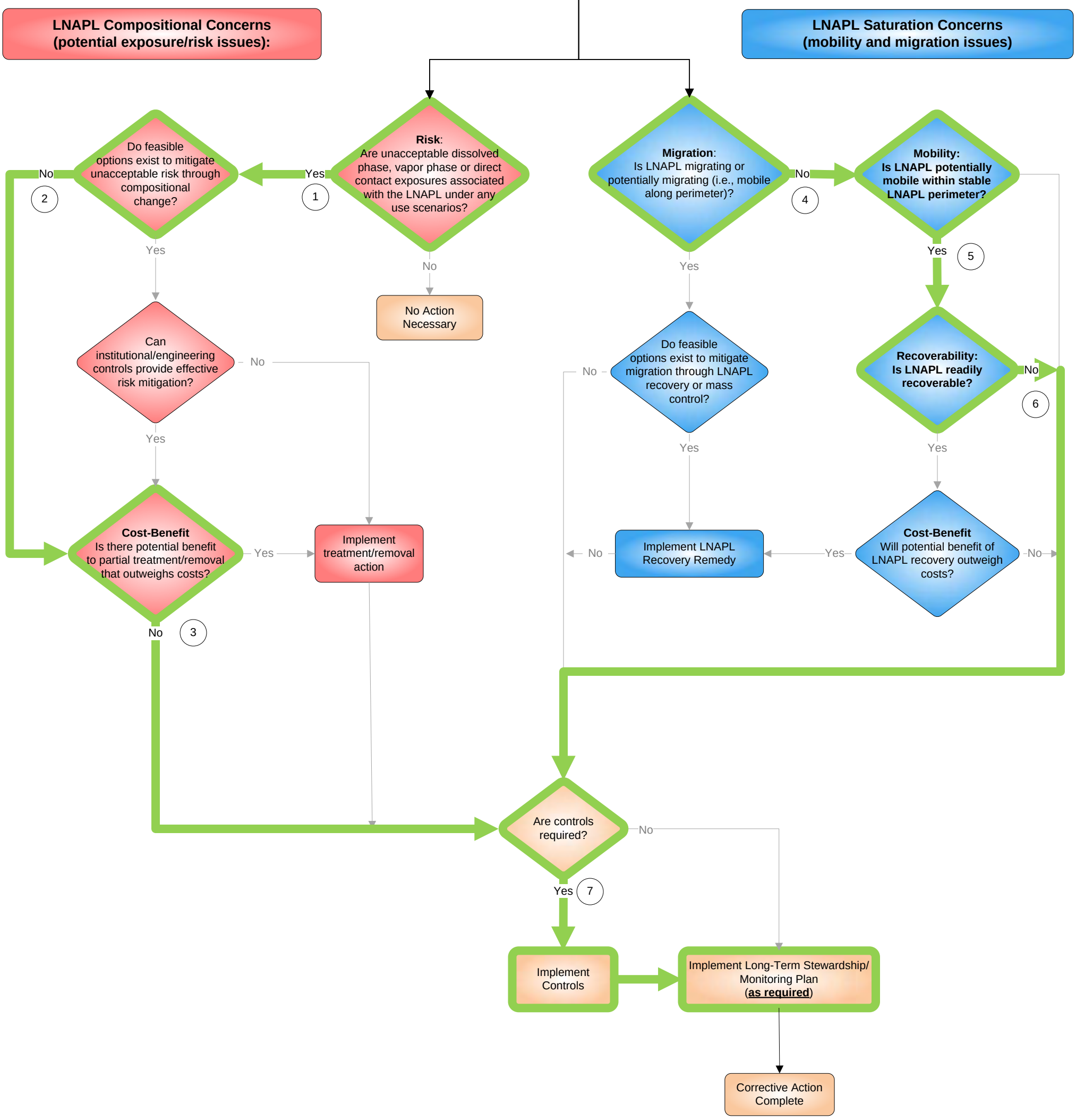
FIGURE
L1-2

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR:ON=*;OFF=*REF*
C:\Users\alsanchez\Desktop\ACTIB0064410\20140020\IB64410_AOI 03-1.dwg LAYOUT: L1-2 SAVED: 8/20/2014 5:25 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ----
IMAGES: PROJECTNAME: ---- PLOTSTYLETABLE: ---- PLOTTED: 8/25/2014 1:34 AM BY: SANCHEZ, ADRIAN

Attachment 2

LNAPL Remedial Decision Tree

Attachment 2 LNAPL Remedial Decision Tree Priority #13 – AOI 03-1 Quench Oil Area



NOTES

(#) NOTES: See Page L2-2

Please see Appendix W for the LNAPL Remedial Decision Tree Template that lists additional sources of pertinent information used in the evaluation of the decision points (i.e. tables).

Attachment 2 Notes

Priority #13 - AOI 03-1 Quench Oil Area

Background: The AOI 03-1 Quench Oil LNAPL area is located at the Northend of the Site just south of former Factory 03 and is likely associated with a historic release in the southern portion of Building 30A (Release No.C-0921-91). There are currently no buildings within the AOI 03-1 Quench Oil LNAPL Area footprint.

Geology and Hydrogeology: The soils at AOI 03-1 are primarily Silt and Sand from 0 to 16 feet below ground surface (bgs), with a Sand layer from 10 to 12 feet bgs. Depth to groundwater in this area is generally 8 to 10 feet bgs. Based on historic fluid level gauging data, groundwater flow in this portion of the Site is generally to the south.

LNAPL Characteristics: The soil boring logs indicate evidence of impacts from 4.5 to 16 feet bgs, while LIF logs indicated the depth of impacts to be 7 to 15 feet bgs at the AOI 03-1 LNAPL area. The greatest thickness of LNAPL measured at AOI 03-1 was 2.94 feet measured at monitoring well 03-03R in 2010. At the AOI 03-1 Quench Oil Area, the LNAPL has a viscosity of 26 centipoise (cp), interfacial tension of 2.8 dynes/centimeter (cm), a specific gravity of 0.90 and detected PCBs at a concentration of 6 ppm.

1) *Are unacceptable dissolved phase, vapor phase, or direct contact exposures associated with the LNAPL under any use scenarios?*

   YES – The following potential risk/exposure concerns are associated with the AOI 03-1 Quench Oil Area:

   - Groundwater/surface water interface (GSI): Groundwater and soil samples collected from the AOI 03-1 area exhibited concentrations of select VOCs and metals (arsenic, beryllium, copper, cyanide, selenium) that exceed GSI or GSIP criteria. However, there has been insufficient LNAPL present at 03-03R2 to perform metals analysis, so it is unknown whether the LNAPL is the source of the metal impacts. In addition, the monthly samples collected from the Outfall 003 storm sewer (which services this portion of the Site) as part of the NPDES Plus Monitoring (NPMP) program have not detected VOCs, copper, beryllium, or selenium above GSI criteria.

     In addition, groundwater levels in this portion of the Site are generally deeper than the invert elevation of the storm sewer; however, groundwater levels do fluctuate and are occasionally above the invert. Therefore, the storm sewers in this area may be an intermittent GSI pathway.

   - Potential Volatilization to Indoor Air Concerns for Future Structures: Theoretically, there is a potential unacceptable vapor phase exposure risk associated with methane for future redevelopment scenarios; however, this will be addressed by the proposed institutional controls.

2) *Do feasible options exist to mitigate unacceptable risk through compositional change?*

   NO – The following is a general discussion regarding the feasibility of various compositional change remediation strategies for the AOI 03-1 LNAPL Area:

   - Enhanced dissolution and recovery via surfactant or hot water flushing may enhance LNAPL recovery; however, it is not a viable option based on the presence of nearby City sewers. The use of surfactant would increase mobility and therefore, likely increase the potential for PCB-impacted LNAPL infiltration into the storm sewer.

   - The AOI 03-1 LNAPL Area constituents have low volatility rendering remedial technologies that rely on vapor-phase partitioning infeasible on a technical basis.

   - In situ thermal remediation may be technically feasible for the area; however, it is not a viable option based on the presence of PCBs in the LNAPL and the proximity of City sewers. In addition, it does not represent an economically feasible remedial alternative given the relatively large area that would need to be addressed in order to avoid the generation of dioxins.

   - Targeted in-situ soil mixing/land farming would use biological additives to address the petroleum constituents; however, the PCBs would remain and could become mobilized. In addition, due to the proximity of the AOI 03-1 LNAPL Area to the Site storm sewers, there is a potential for the additives to enter the sewer and be discharged to the Flint River.

3) *Is there a potential benefit to partial treatment/removal that outweighs costs?*

   NO – A historic IM addressed the suspected source area for this LNAPL Area in the southern portion of Building 30A; therefore, partial and effective LNAPL removal has already been completed and a transition to institutional controls is now appropriate.

Attachment 2 Notes

Priority #13 - AOI 03-1 Quench Oil Area

4) *Is LNAPL migrating or potentially migrating (i.e. mobile along the perimeter)?*

NO – The LNAPL area appears to be stable. This finding is supported by the following lines of evidence:

- Well Gauging Data: Sentinel wells located downgradient of the AOI 03-1 LNAPL Area have remained free of LNAPL since monitoring began approximately 10 years ago.
- Age of LNAPL Release: The source of the AOI 03-1 was likely a release from former Factory 03 release identified in 1991 and use of Factory 03 was discontinued in 1998 (no active LNAPL sources for at least 15 years). LNAPL bodies typically stabilize within 2 to 5 years after a release has been stopped (ITRC, 2012).

5) *Is LNAPL mobile within the stable LNAPL perimeter?*

YES – LNAPL has been consistently detected at monitoring well 03-03 (and its replacements 03-03R and 03-03R2) since 2001.

6) *Is LNAPL readily recoverable?*

NO – An historic IM was completed at the suspected source area of the LNAPL area (located in southern portion of Building 30A) in 1991 and the subsequent bailing program completed at AOI 03-1 from 2003 to 2005 only recovered one gallon of LNAPL. During the bailing program, 11 monitoring wells AOI 03-1 were monitored and manually bailed during 10 events and a total of 1 gallon of product was removed. It is unlikely that future LNAPL recovery is practical at AOI 03-1.

7) *Are controls required?*

YES – The following AOI-specific institutional controls are proposed, in addition to the Site-wide institutional controls, for the AOI 03-1 Quench Oil area to limit future exposure:

- Notify future owners of the presence of PCBs, and
- Restrict the area containing PCB-impacted LNAPL to low occupancy (as shown on **Figure L3-1**).

Attachment 3

761.61(c) Risk Based Cleanup and Disposal Request

Priority #13 – AOI 03-1 Quench Oil Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 3 – 761.61(c) Risk Based Cleanup and Disposal Request

---

This attachment presents the information required to support a 761.71(c) determination for the Area of Interest (AOI) 03-1 light non-aqueous phase liquid (LNAPL) Area.

1. Area Background and History

The AOI 03-1 LNAPL Area is located at the Northend of the Site just south of former Factory 03 and is likely associated with a historic release in the southern portion of Building 30A. LNAPL believed to be related to this release was identified at downgradient monitoring well 03-03 (and replacement wells 03-03R and 03-03R2). Historically, LNAPL associated with the AOI 03-1 LNAPL Area was also identified in monitoring wells 03-01, 03-105R, (and its replacement well 03-105R2), and RFI-03-15R; however, LNAPL has not been detected in these wells since 2003/2004. In recent years, LNAPL has only accumulated to a measurable thickness in one monitoring well (03-03R2) in the AOI 03-1 LNAPL Area.

2. Summary of SOPs and Investigation Results

AOI 03-1 has been previously investigated as part of the Site's RCRA Facility Investigation activities. The RFI Work Plan presents the standard operating procedures, field sampling procedures, quality assurance/quality control procedures, etc. used during the investigation. The results of the investigations (including laboratory analytical reports) were presented in the RFI Phase I and RFI Phase II reports.

3. Nature of Contamination

At AOI 03-1 samples of LNAPL, soil, and groundwater have been analyzed for polychlorinated biphenyls (PCBs). Below is a brief summary of results.

- An LNAPL sample collected from 03-03R2 detected PCBs at concentration of 6 parts per million (ppm).
- Fourteen soil samples collected from the AOI 03-1 area were analyzed for PCBs. Ten of the samples did not detect PCBs, and four samples detected PCBs at levels less than 1 ppm.

- Ten groundwater samples collected from wells in the AOI 03-1 area were analyzed for PCBs. No PCBs were detected in the groundwater samples.

4. Extent of Impacts

At AOI 03-1 PCB impacts are associated with the LNAPL. **Figure L3-1** shows the approximate extent of LNAPL and PCB detection. As discussed above, in recent years LNAPL has only been detected at 03-03R2 and is currently approximately 11 feet bgs. Also, based on LIF borings, the depth of impacts are primarily 7 to 15 feet bgs.

5. Risk-Based Procedure

Due to the nature and extent of PCB impacts, it is requested that the LNAPL impacts at AOI 03-1 be allowed to remain in place. Furthermore, the area will be designated as low occupancy [per 761.61 (a)(4)(i)(B)]. AOI-specific deed restrictions, in addition to the Site-wide institutional controls as noted on **Table 10 of the main report**, placed on AOI 03-1 will include:

- Notification to future owners of the presence of PCBs, and
- Restrict the area shown on **Figure L3-1** to low occupancy based on the presence of PCBs.

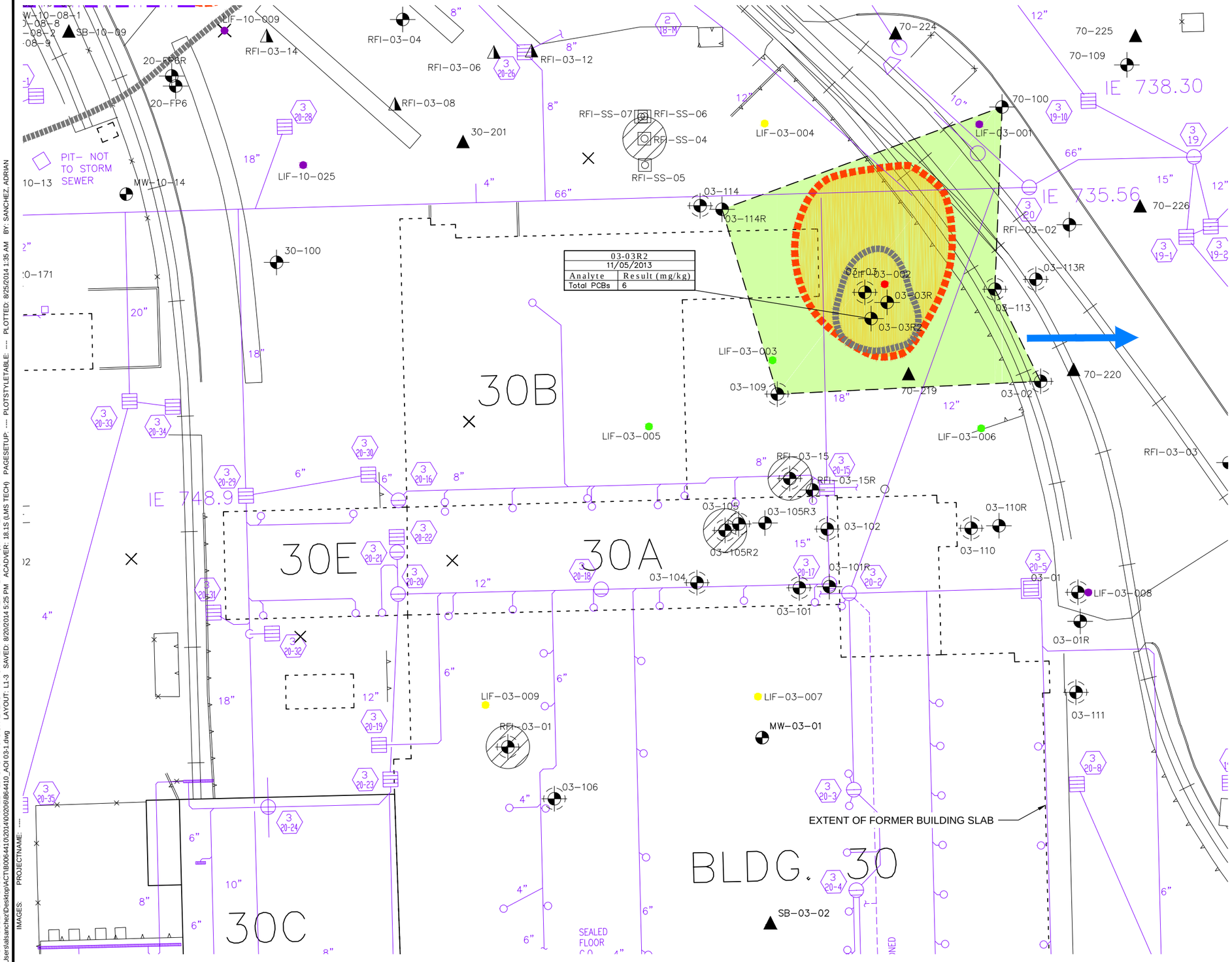
6. Evaluation of Alternatives

The following technologies were evaluated to address LNAPL at AOI 03-1:

- Targeted in-situ soil mixing/land farming uses biological additives to address the petroleum constituents; however, the PCBs would remain and could become mobilized. Due to the proximity of the AOI 03-1 LNAPL area to the Site storm sewers, there is a potential for the additives or mobilized PCBs to enter the sewer and be discharged to the Flint River.
- Enhanced dissolution and recovery via surfactant or hot water flushing may enhance LNAPL recovery. However, due to the proximity of the AOI 03-1 LNAPL area to the Site storm sewers, there is a potential for surfactant and mobilized PCB-containing LNAPL to enter the sewer and be discharged to the Flint River.
- In situ thermal remediation may be technically feasible for the area; however, it is not a viable option based on the presence of PCBs in the LNAPL and the proximity of City sewers. In addition, it does not represent an economically feasible remedial alternative given the relatively large area that would need to be addressed in order to avoid the generation of dioxins.
- Constituents of LNAPL from AOI 03-1 (quench oil) have low volatility rendering remedial technologies which rely on vapor-phase partitioning infeasible on a technical basis.

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Figures



NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.. AREAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 30' 60'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 03-1
PCB CONCENTRATIONS IN LNAPL AND E□TENT OF LOW OCCUPANCY RESTRICTIONS

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FIGURE
L3-1

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR:ON=*;OFF=*REF*
C:\Users\alsanchez\Desktop\ACTIB\0064410\20140020\6B64410_AOI 03-1.dwg LAYOUT: L1-3 SAVED: 8/20/2014 5:25 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---
IMAGES: PROJECTNAME: --- PLOTSTYLETABLE: --- PLOTTED: 8/25/2014 1:35 AM BY: SANCHEZ, ADRIAN

Attachment 4

Remedy Recommendation

Priority #13 – AOI 03-1 Quench Oil Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 4 – Recommended Remedy

This attachment presents the recommended remedies for the Area of Interest (AOI) 03-1 Quench Oil light non-aqueous phase liquid (LNAPL) Area (AOI 03-1 LNAPL Area).

1. Compositional and Saturation Concerns

The LNAPL Decision Tree Analysis presented in **Attachment 2** identified groundwater/surface water interface (GSI) and potential volatilization to indoor air as compositional concerns and mobility as a saturation concern for the AOI 03-1 area. The GSI concern is based on the detection of select volatile organic compounds (VOCs) and metals in groundwater and soil samples at concentrations that exceed the GSI or GSI protection (GSIP) criteria. The volatilization to indoor air concern is due to the potential biodegradation of LNAPL generating methane which theoretically could result in indoor air quality concerns for future structures.

2. Remedy Recommendation Rationale

The remedy recommended to address the compositional and saturation concerns associated with the AOI 03-1 LNAPL Area is institutional controls, which is discussed in detail in Section 3. The rationale for this selection is detailed below:

- Groundwater levels at AOI 03-1 are generally deeper than the invert elevation of the storm sewer; however, levels do fluctuate and are occasionally above the invert. Therefore, the storm sewers in this area may be an intermittent GSI pathway.
- Although select groundwater and soil samples collected from the AOI 03-1 Area have exhibited concentrations that exceeded GSI or GSIP criteria for select VOCs or metals (arsenic, beryllium, copper, cyanide, selenium, and silver); the monthly NPDES Plus Monitoring Plan (NPMP) samples collected from Outfall 003 have not detected VOCs, beryllium, copper, or selenium at concentrations above GSI criteria.

- As discussed in **Appendix BB**, the majority of metals exceedances identified in the Outfall 003 storm sewer will likely be addressed by a mixing zone remedy; however, additional data collection and evaluation is necessary.
- Based on the current understanding of risk conditions, the potential volatilization to indoor air risk for future structures can be effectively mitigated through the Site-wide institutional controls.
- Based on the current delineation of the AOI 03-1 LNAPL Area, it appears that the footprint may intersect the Outfall 003 storm sewer main and laterals. As such a visual inspection of the storm sewer was completed and no evidence of LNAPL infiltration was identified in this portion of the sewer.
- PCBs were detected at a concentration of 6 parts per million at monitoring well 03-03R2. LNAPL has only been detected at 03-03R2 in recent years and is currently approximately 11 feet bgs. Also, based on LIF borings, the depth of impacts are primarily 7 to 15 feet bgs. Due to the nature and extent of PCB impacts, it is requested that the LNAPL impacts at AOI 03-1 be allowed to remain in place. Furthermore, the area will be designated as low occupancy [per 761.61 (a)(4)(i)(B)].
- A historic IM addressed the suspected source area for the LNAPL in the southern portion of Building 30A; therefore, partial and effective LNAPL removal has already been completed and a transition to institutional controls is now appropriate.
- The NSZD testing indicates that LNAPL is being depleted at a rate of approximately 400 gallons per acre per year at AOI 03-1.

3. AOI 03-1 Remedies

3.1 Completed Interim Measures

In 1991, a roof drain/storm sewer sump located in the southern portion of Building 30A was converted into a collection sump with a belt skimmer to recover accumulated quench oil. This recovery system was successful in recovering LNAPL proximate to the recovery sump; hence, operation of the system was discontinued. The amount of LNAPL removed by this system is unknown.

In addition, from 2003 to 2005, eleven AOI 03-1 monitoring wells were monitored and manually bailed as part of the Site-wide LNAPL monitoring program. During this three year program a total of 1-gallon of product was removed, primarily from monitoring well 03-03R.

3.2 Additional Remedy Recommendations

The remedy recommended to address the compositional and saturation concerns associated with AOI 03-1 LNAPL Area is Institutional Controls. This remedy will reduce exposure risks associated with the AOI 03-1 area and be protective of future workers in the long term.

3.2.1 Institutional Controls

The following AOI-specific institutional controls, in addition to the Site-wide controls noted in the Report, will be necessary to limit potential for future exposure:

- Notify future owners of the presence of PCBs, and
- Restrict the area shown on **Figure L3-1** in **Attachment 3** to low occupancy based on the presence of PCBs.

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Appendix L - Addendum No. 1

February 15, 2016

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Fax 248 994 2241

MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER

From:
Micki M. Maki

Date:
February 15, 2016

ARCADIS Project No.:
B0064410.2016

Subject:
Remedy Recommendation Report
Appendix L - AOI 03-1 Quench Oil Area - Addendum No.1
Summary of Additional Investigations
RACER Buick City Site, Flint, Michigan

Introduction

This Addendum No. 1 to Remedy Recommendation Report Appendix L presents a summary of investigation data collected at the AOI 03-1 Quench Oil Area from March 19, 2014 through December 31, 2015 at the Buick City Site (Site) located in Flint, Michigan.

Summary of Investigation Activities

Four temporary wells (TW-03-03-1 through TW-03-03-4) were installed to a depth of approximately 15 feet below ground surface (ft bgs) to delineate LNAPL impacts and refine the extent of polychlorinated biphenyls (PCBs). **Figure L-A1-1** presents the locations of the temporary wells. Soil samples were collected from the 2 foot interval above the groundwater table at each temporary well location and submitted to the laboratory for analysis of PCBs.

Summary of Data Evaluation

Indications of impact were identified at all four temporary well locations. At TW-03-03-1 a moderate odor and elevated PID readings were noted. At TW-03-03-2 through TW-03-03-4 strong odors, staining, elevated PID readings, and sheens were identified.

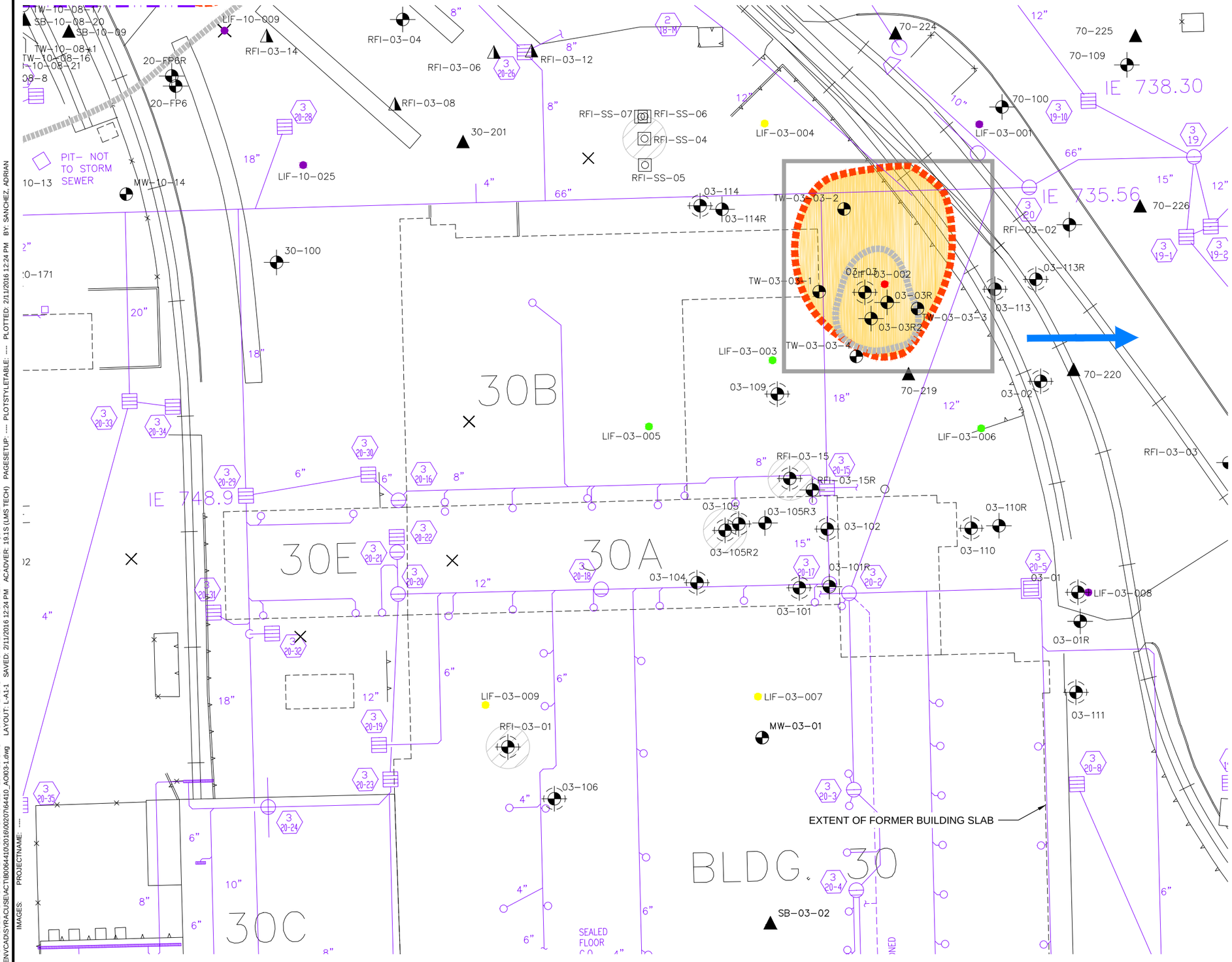
PCBS were not detected in any of the soil samples collected from TW-03-03-1, TW-03-03-2, and TW-03-03-4. However, the soil sample collected from 8 to 10 ft bgs at TW-03-03-3 detected PCBs at a concentration of 1.8 milligrams per kilogram.

The newly installed monitoring wells were gauged four times in December 2014, January 2015, and August 2015. LNAPL was gauged at a thickness of 0.02 feet in temporary well TW-03-03-4 in August 2015, but was not observed in the remaining wells during any of the gauging events.

Table L-A1-1 **Summary of Additional Soil Investigation**
Remedy Recommendation Report Appendix L – AOI 03-1 Quench Oil Area - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GSIP	NDC	NPSIC	NSVIA	NVSICI	TW-03-03-1 8 - 10 11/14/14	TW-03-03-2 8 - 10 11/17/14	TW-03-03-3 8 - 10 11/14/14	TW-03-03-4 8 - 10 11/14/14
PCB											
Aroclor-1016 (PCB-1016)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.6 UY	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.6 UY	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.6 UY	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.6 UY	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.6 UY	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	1.8 Y	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U	0.6 UY	0.33 U
Total solids	mg/kg	- -	- -	- -	- -	- -	- -	870,000	920,000	870,000	870,000

Notes:
mg/kg - milligram per kilogram
ft - feet
CSAT - Soil Saturation Concentration Screening Level
GSIP - Groundwater Surface Water Interface Protection Criteria
NDC - Nonresidential Direct Contact Criteria
NPSIC - Nonresidential Particulate Soil Inhalation Criteria
NSVIA - Nonresidential Soil Volatilization to Indoor Air Inhalation Criteria
NVSICI - Nonresidential Infinite Source Volatile Soil Inhalation Criteria
U – not detected above the reporting limit□
Y - Elevated reporting limit due to high target concentration



LEGEND:

- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- DEMOLISHED BUILDING
- STORM SEWER LINE
- GENERAL GROUNDWATER FLOW DIRECTION

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200
- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 02/15/2016.

0 30' 60'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 03-1
INVESTIGATION LOCATIONS AND LNAPL E□TENTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
L-A1-1

CITY: SYRACUSE DIV/GROUP: ENV DB: A.SANCHEZ LD: ALS/GMS PIC: C.S.PETERS PM: C.KIKER TM: C.KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\B0064410\2016\0020764410_AO03-1.dwg LAYOUT: L-A1-1 SAVED: 2/11/2016 12:24 PM ACADVER: 19.1S (LMS TECH) PAGESETUP: ----
IMAGES: PROJECTNAME: ----
PLOTSTYLETABLE: ---- PLOTTED: 2/11/2016 12:24 PM BY: SANCHEZ, ADRIAN

Appendix M

AOI 02-B Hydraulic Oil Area
Remedy Recommendation Memo

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MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER Trust
Dave Favero, RACER Trust
Chris Peters, ARCADIS
Steve Gaito, ARCADIS

From:
Micki M. Maki
Victoria Stacey

Date:
August 29, 2014

ARCADIS Project No.:
B0064410.2014

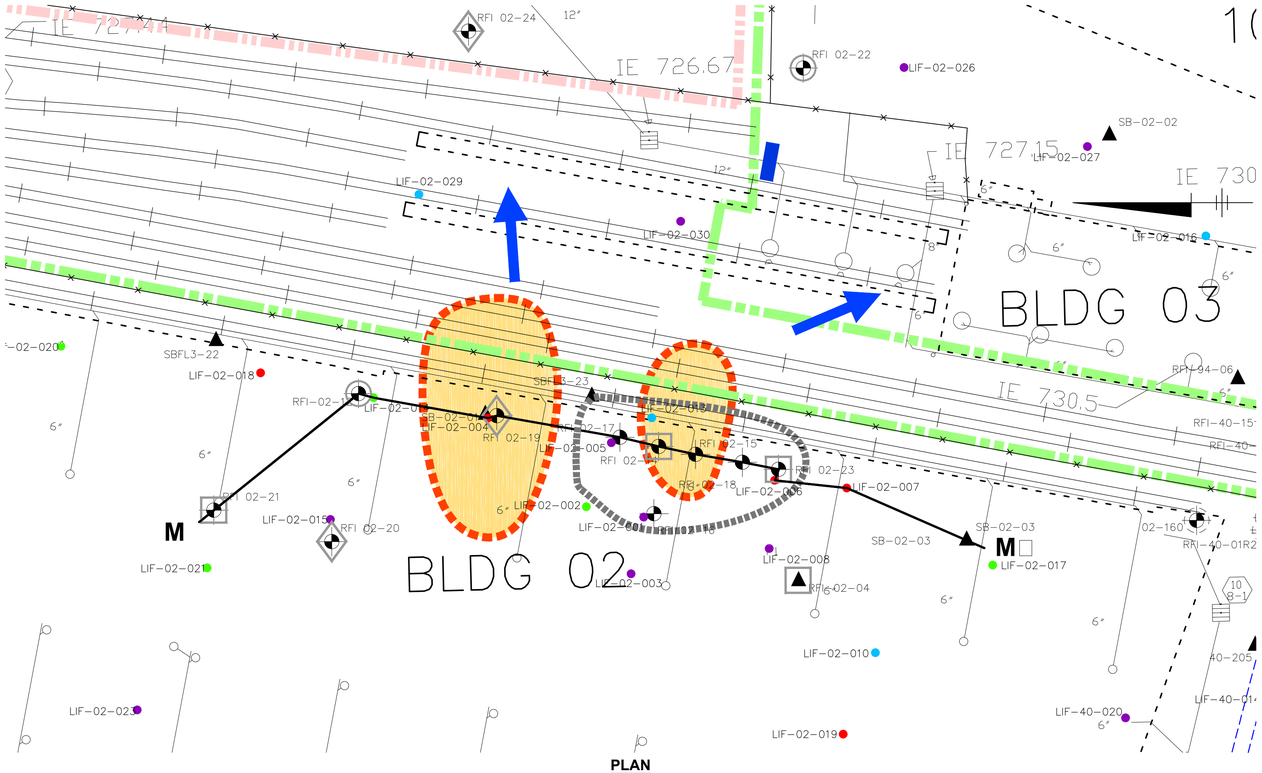
Subject:
Priority #16 - AOI 02-B Hydraulic Oil Area
Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

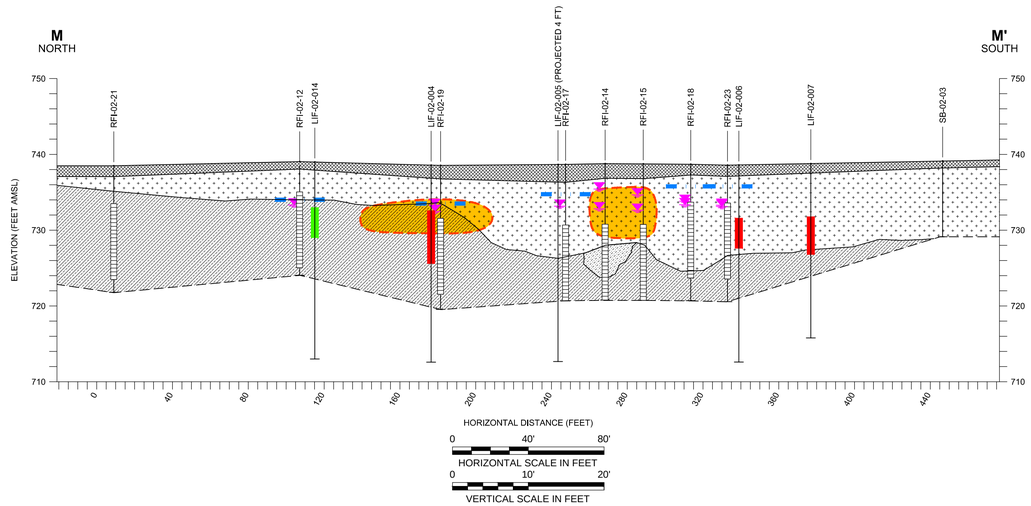
As part of the remedy evaluation process each of the Site's 17 light non-aqueous phase liquid (LNAPL) areas were prioritized based on risk. The area of interest (AOI) 02-B Hydraulic Oil Area (AOI 02-B LNAPL Area) is ranked as Priority #16 with a total potential risk score of 1 (**Table 5 of the main report**). A conceptual site model cross-section is attached (**Figure M-1)** that provides an overview of the AOI 02-B LNAPL Area impacts.

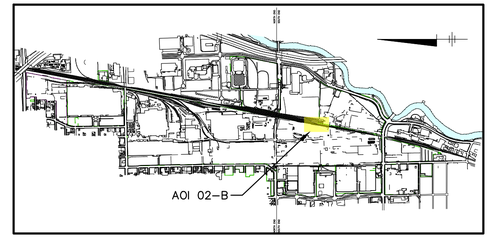
The compositional and saturation concerns identified for the AOI 02-B LNAPL Area were evaluated in the LNAPL decision tree (**Attachment 2**) and are summarized below:

- Theoretically, there is a potential unacceptable vapor phase exposure risk associated with methane generated from the biodegradation of methane, for future redevelopment scenarios; however, this will be addressed by the proposed institutional controls.
- No feasible options exist to mitigate unacceptable risk through compositional change.
- Based on the understanding of site conditions, risk can be effectively mitigated through institutional controls.
- The LNAPL is not migrating and the Outfall 006 storm sewer that services AOI 02-B has been bulkheaded.
- The LNAPL is not readily recoverable.

Based on the current understanding of conceptual site model, the potential future volatilization concern associated with the AOI 02-B LNAPL Area can be effectively mitigated through the Site-wide institutional controls.







SITE MAP

0 2000' 4000'

SCALE IN FEET

AOI 02-B HYDRAULIC OIL AREA

KEY LNAPL COMPOSITION AND SATURATION CONCERNS

1) POTENTIAL VOLATILIZATION TO INDOOR AIR CONCERN FOR FUTURE STRUCTURES
2) THE LNAPL IS NOT MIGRATING AND IS MOBILE WITHIN ITS STABLE PERIMETER . HOWEVER THE VISCOSITY OF THE LNAPL IN THIS PLUME IS 362 cP, LIMITING ITS MOBILITY
3) TRANSMISSIVITY WAS UNABLE TO BE CALCULATED DUE TO THICKNESS OF THE LNAPL. LNAPL IS NOT READILY RECOVERABLE

COMPLETED INTERIM MEASURES AND RECOMMENDED REMEDIES

R-1) INSTITUTIONAL CONTROLS

NOTES:

1. BASE MAP INFORMATION FROM SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.
2. BASED ON INFORMATION AVAILABLE AS OF 03/19/14.
3. FILL MATERIAL CONSISTS PRIMARILY OF SAND AND SILTY SAND.

RACER TRUST
BUICK CITY, FLINT, MICHIGAN

AOI 02-B CONCEPTUAL SITE MODEL CROSS SECTION M-M'

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FIGURE
M-1

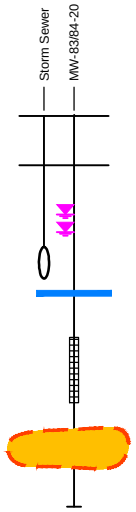
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IMAGES: PROJECTNAME: ----
PAGESETUP: ---- PLOTSTYLETABLE: BBL-FULL.CTB PLOTTED: 9/3/2014 4:56 PM BY: SANCHEZ, ADRIAN (LMS TECH)

LEGEND

- PROPERTY BOUNDARY
- HISTORICAL LNAPL EXTENT
- CURRENT LNAPL EXTENT
- STORM SEWER
- ABANDONED STORM SEWER LATERAL
- APPROXIMATE LOCATION OF RECOVERY TRENCH
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- A1 — A1 LINE OF SECTION
- RFI MONITORING WELL LOCATION
- MONITORING WELL LOCATION
- RECOVERY WELL (NAPL) LOCATION
- PIEZOMETER LOCATION
- SOIL BORING LOCATION
- DECOMMISSIONED WELL LOCATION
- EVIDENCE OF PRODUCT OBSERVED IN SOIL

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

- <5
- 5–10
- 10–100
- 100–200
- >200
- HAND AUGER REFUSAL (TOP 5')
- GROUNDWATER SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- GROUNDWATER SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA
- SOIL SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES DO NOT EXCEED APPLICABLE CRITERIA
- SOIL AND GROUNDWATER SAMPLES EXCEED ONE OR MORE APPLICABLE CRITERIA



- WELL/BORING ID
- EXISTING GRADE
- LITHOLOGICAL CONTACT (DASHED WHERE INFERRED)
- NAPL LEVEL (HISTORIC HIGH AND LOW LEVELS)
- WATER TABLE
- WELL SCREEN
- APPROXIMATE EXTENT OF LNAPL
- WELL/BORING BOTTOM
- ASPHALT
- CONCRETE
- CLAY
- FILL
- GRAVEL
- INTERBEDDED SAND AND CLAY
- INTERBEDDED SANDS AND SILTS
- INTERBEDDED SILT AND CLAY
- SAND
- SILT
- SILTY SAND

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

CROSS SECTION LEGEND

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FIGURE
M-2

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB0064410\2014\00206\Xsections\64410V01.DWG LAYOUT: 1A SAVED: 7/11/2014 11:58 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: BBL-FULL.CTB PLOTTED: 7/11/2014 1:56 PM BY: SANCHEZ, ADRIAN
XREFS: IMAGES: PROJECTNAME: ---
Xr64410X3Bsp
Xr64410XDrainage
Xr64410X01
Xr64410XLIFsp2
Xr64410X01
Xr64410XAOI
Xr64410XLNAPL

Attachment 1

LNAPL Conceptual Site Model

ARCADIS

Priority #16 - AOI 02-B Hydraulic Oil Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 1 - Conceptual Site Model

This attachment presents a conceptual site model for the area of interest (AOI) 02-B Hydraulic Oil light non-aqueous phase liquid (LNAPL) Area (AOI 02-B LNAPL Area), which is located at the Buick City Site (Site) located in Flint, Michigan (**Figure M1-1**).

1. Background

The AOI 02-B LNAPL Area is located at the Southend of the Site in the eastern portion of the former Building 02 footprint. Historically, Building 02 housed the GM Machine Tool Division/Plastics Area and the occurrence of AOI 02-B LNAPL Area is presumably due to historic releases associated with the plant operations. The AOI 02-B LNAPL Area is located along the CSX property boundary (**Figure M1-2**) and LNAPL has accumulated to measurable thicknesses in seven monitoring wells.

Investigation data previously presented in Site reports are not re-presented in this memo. However, relevant AOI 02-B LNAPL Area investigation data that has not previously been presented in a Site report are attached or are presented in **Appendix X**.

2. AOI 02-B LNAPL Area Site Setting and Data Summary

This section provides a summary of the geology, hydrogeology, analytical data, LNAPL characteristics and extent of impacts for the AOI 02-B LNAPL Area. **Figure M1-2** presents the locations of the existing and abandoned monitoring wells and soil borings in the AOI 02-B LNAPL Area.

2.1 AOI 02-B LNAPL Area Geology and Hydrogeology

- *Geology*: Soil boring and monitoring well logs in the vicinity of the AOI 02-B LNAPL Area indicate that the soils are primarily sands to silty sands and fill materials from 0 to 6 feet below ground surface (bgs) in the northern portion of the AOI 02-B LNAPL Area and 0 to 12 feet bgs in the southern portion of the AOI 02-B LNAPL Area. The sands and fill material are underlain by clays to approximately 18 feet bgs. The boring logs also indicated visual evidence of impact from 6 to 15 feet bgs.

- *Groundwater/LNAPL Levels:* Depth to groundwater in this area ranges from 5 to 6 feet bgs and the greatest thickness of LNAPL measured at RFI-02-15 was 8.2 feet in 2012. During the most

recent monitoring event (June 2013) LNAPL was only detected in three of the AOI 02-B LNAPL Area wells (RFI-02-14, RFI-02-15, and RFI-02-19).

During the RFI at the Site, the storm sewers located in the AOI 02-B LNAPL Area were bulkheaded; therefore, the groundwater surface water interface (GSI) pathway is no longer applicable in this part of the Site. Based on fluid level gauging data, groundwater flow in this portion of the Site is generally to the east and southeast. A summary of groundwater level data collected at the AOI 02-B area is presented in **Appendix X**.

2.2 Groundwater and Soil Analytical Data

Analytical data were compared to applicable Michigan Part 201 non-residential criteria.

2.2.1 Groundwater Analytical Data

The groundwater data in the AOI 02-B LNAPL Area do not exceed applicable criteria.

2.2.2 Soil VOC, SVOC and Metals Analytical Data

Soil samples collected from the AOI 02-B LNAPL Area do not exceed applicable criteria.

2.2.3 Soil PCB Analytical Data

Polychlorinated biphenyls (PCBs) were not detected in the 15 soil samples collected in the AOI 02-B LNAPL Area.

2.2.4 Vapor Intrusion Evaluation

Due to the presence of shallow groundwater and LNAPL (approximately 4 feet bgs) at the AOI 02-B LNAPL Area, groundwater data were also compared to the applicable Non-Residential Screening Values for the Vapor Intrusion Pathway presented in the *Michigan Department of Environmental Quality (MDEQ) Guidance Document for the Vapor Intrusion Pathway* (further discussed in Section 3.4 of the Report). Groundwater concentrations do not exceed applicable screening levels.

As there are no structures at the Site the MDEQ Part 201 criteria are appropriate for comparison of soil data. Soil concentrations did not exceed applicable screening levels.

2.3 LNAPL Characteristics

- *LNAPL Analytical Data:* LNAPL present at AOI 02-B LNAPL Area consists primarily of hydraulic oil and PCBs have not been detected in the LNAPL. Additional analysis indicated that:

- At AOI 02-B, the LNAPL has a viscosity of 362 centipoise (cp),a density of 0.9063 grams per cubic centimeter, interfacial tension of 32.4 dynes/centimeter, and a specific gravity of 0.91.

· *LIF Data:* Thirty laser-induced fluorescence (LIF) borings were completed in the AOI 02-B LNAPL Area. The LIF response at the AOI 02-B LNAPL Area is consistent with the known LNAPL type, hydraulic oil. The vertical range of LIF impact (greater than 5%) is typically 6 to 12 feet bgs. **Figure M1-2** presents the results of the LIF investigation and the extent of impacts associated with the AOI 02-B LNAPL Area.

· *Transmissivity:* An LNAPL transmissivity study was completed at the Southend of the Site, which consisted of completing four quarters of baildown testing. Three monitoring wells from AOI 02-B (RFI-02-14, RFI-02-15, and RFI-02-19) were initially included in the study; however the wells were removed from the study after two quarters because the LNAPL was too viscous to accurately measure.

· *Natural Source Zone Depletion (NSZD):* An NSZD study was conducted at two locations (LIF-02-007 and LIF-02-008) that are located in the AOI 02-B LNAPL Area. The testing completed indicated that NSZD is occurring; however, the currently available testing technologies cannot reliably quantify the depletion beneath a concrete slab.

· *Respirometry Testing:* Respirometry testing was completed to determine the feasibility of enhancing biological degradation of total petroleum hydrocarbons (TPH) in soil by augmenting samples with the addition of nutrients under aerobic conditions. Soil samples were collected adjacent to monitoring well RFI-02-19 and submitted to the laboratory for respirometry testing. Three sample intervals (5 to 10, 10 to 15 and 5 to 15 ft. bgs) were collected and submitted for testing. Due to the high clay content in the soils the laboratory indicated that the results of the testing were inconclusive; however, observations can be made based on the results. The testing results indicated that the TPH in the control samples (which did not have nutrients added) degraded at a similar rate to the samples with nutrient added. This indicates that there are enough nutrients already present in the soil. This also indicates that oxygen is rate limiting and that multiphase extraction, soil-vapor extraction, air sparging, land farming or passive venting may be viable options at the Buick City Site. However, due to the geology at AOI 02-B only land farming or passive venting would potentially be applicable. In summary, the two additives did not show a significant improvement in degradation indicating that the naturally occurring microbes present have acclimated to Buick City's contaminated soil and oxygen is the rate limiting in the AOI 02-B LNAPL Area.

2.4 Extent of LNAPL

During the Remediation Cost Estimate Summary (RCES) preparation, the AOI 02-B LNAPL area was calculated based on historical data. The footprint of the AOI 02-B LNAPL Area containing approximately 0.5 ft or greater of LNAPL was estimated to be approximately 4,300 square feet. The current footprint of the LNAPL area is estimated (as discussed in Section 2.1.3 of the main report) to be approximately 10,800 square feet. Based on the soil boring logs, impacts were detected from 6 to 15 feet bgs; however, the soil samples did not exceed applicable cleanup criteria. The LIF logs indicated the depth of impacts to be 6 to 12 feet bgs.

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Boring Logs

Date Start: 10/17/13
Date Finish: 10/17/13
Drilling Company: Cascade
Driller's Name: Steve Gross, Steve Argue
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 5.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 562098.17
Easting: 13306001.43
Casing Elevation: NA

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: 739.13

Descriptions By: A. Richmond

Well/Boring ID: **SB-02-01**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Rain, 55

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			CONCRETE.		(0.0-1.0') CONCRETE
				1.6			SAND, medium, some silt, little granules, subangular; little medium pebbles, angular; poorly sorted; dry; very dark brown (10YR 2/2).		
	1	0.0-5.0	5.0	0.8					
				1.2					
				0.5			Note: Wet at 8.0' bgs. Little odor from 1.0 to 8.0' bgs.		
5 / -5				0.4					
	2	5.0-10.0	5.0	1.2			SAND, very coarse, subangular to subround; little large pebbles, rounded; little granules, subround; poorly sorted; wet; dark olive gray (5Y 3/2).		(1.0-15.0') Bentonite
							Note: Strong odor with sheen and staining from 8.0 to 8.5' bgs.		
				0.4			SILT, medium plasticity, slow dilatency, trace small pebbles, subround; dry; stiff; olive gray (5Y 4/2).		
10 / -10							Note: Staining with little odor from 8.5' to 10.0' bgs.		
				0.3			SAND, fine, and SILT, little small pebbles, subround; trace large pebbles, subround; wet; light olive brown (2.5Y 5/3).		
	3	10.0-15.0	5.0	0.3					
				0.0					
15 / -15							Note: End of Boring at 15' bgs.		
20 / -20									

Remarks: bgs = below ground surface
btoc = below top of casing

Hand auger to 5.0' bgs.
Backfilled with bentonite chips and finished with concrete to match surface.

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Date Start: 10/17/13
Date Finish: 10/17/13
Drilling Company: Cascade
Driller's Name: Steve Gross, Steve Argue
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 4.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 561768.69
Easting: 13306148.85
Casing Elevation: NA

Borehole Depth (ft. bgs.): 10.0' bgs
Surface Elevation: 731.51

Descriptions By: A. Richmond

Well/Boring ID: **SB-02-02**

Client: Buick City
Flint, MI

Location: RACER Trust

Weather Conditions: Rain, 53

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0				NA			CONCRETE.		(0.0-1.0') CONCRETE
	1	0.0-5.0	5.0	112			SAND, medium, little coarse, angular; little silt; little large pebbles, subangular; poorly sorted; moist; black (10YR 2/1).		
				288			Note: Strong odor and staining from 1.0 to 4.0' bgs.		
				263			SAND, coarse, angular; little silt; little granules, angular; trace large pebbles, subangular; poorly sorted; wet; black (10YR 2/1).		
5 / -5				1.7			Note: Strong odor and staining from 4.0 to 7.0' bgs.		(1.0-10.0') Bentonite
				0.6					
	2	5.0-10.0	5.0	0.0			CLAY, nonplastic, no dilatency, little medium pebbles, subround; little silt; dry; hard; olive brown (2.5Y 4/6).		
				0.0					
10 / -10							Note: End of boring at 10.0' bgs.		
15 / -15									
20 / -20									

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Remarks: bgs = below ground surface
btoc = below top of casing

Hand auger to 5.0' bgs.
Backfilled with bentonite chips and finished with concrete to match surface.
SB-02-02(2-4) collected at 1620
SB-02-02(9-10) collected at 1630

Date Start: 9/18/13
Date Finish: 9/18/13
Drilling Company: Cascade
Driller's Name: Ralph Winn, Dan O'Mara
Drilling Method: Sonic
Sampling Method: 4" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 10.0' bgs
Surface Elevation: NA

Descriptions By: D.Shaw

Well/Boring ID: SB-02-03

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny 75

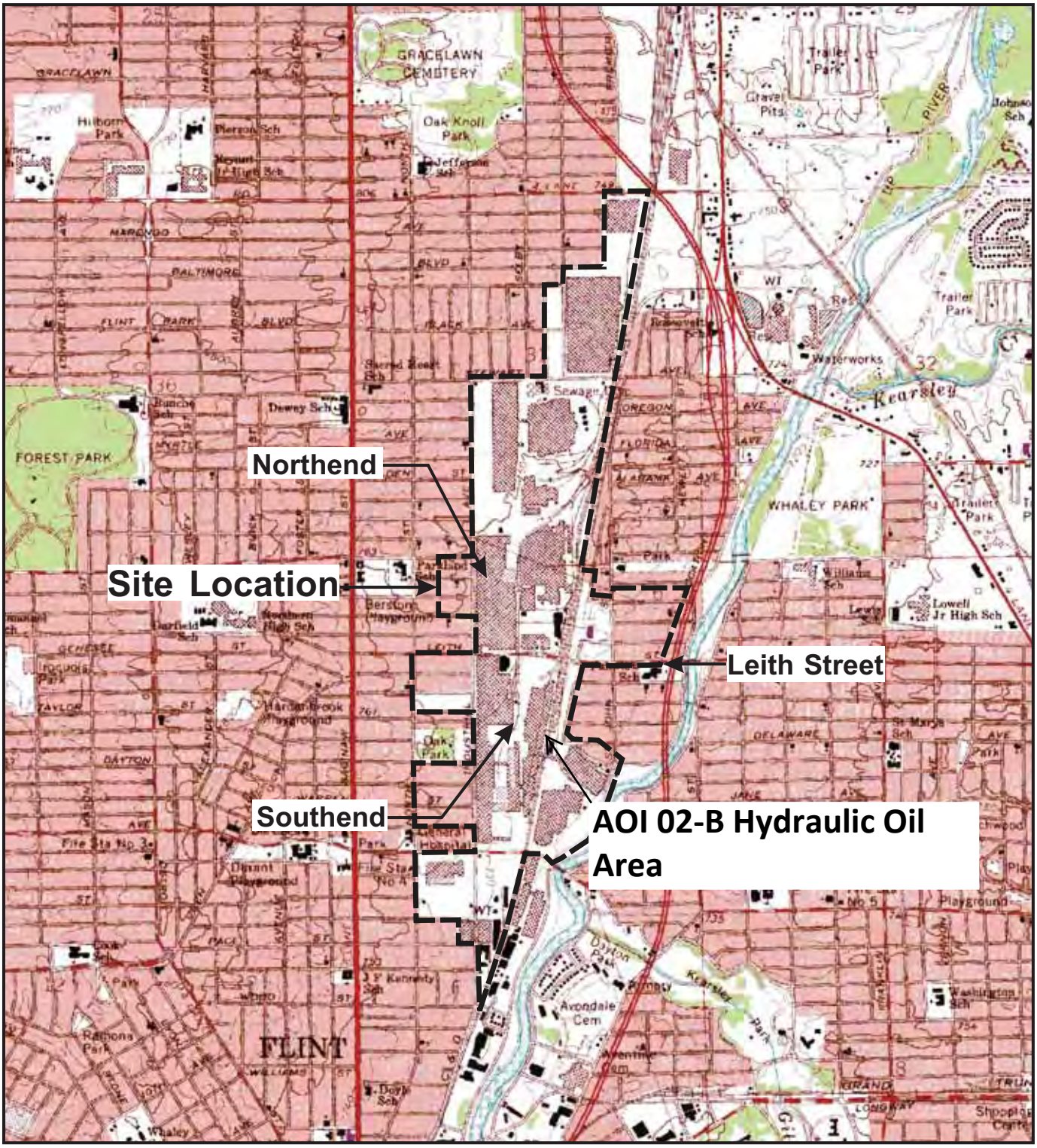
DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
				NA			(0.0 - 1.0') CONCRETE.		(0.0-1.0') CONCRETE
				1.5			(1.0 - 10.0') SAND, very fine to fine, trace medium sand, well sorted; dry; black (10YR 2/1).		
	1	0.0-5.0	4.0	1.4					
				1.6					
				1.5					
5 / -5				1.4					(1.0-10.0') Bentonite
				2.5					
	2	5.0-10.0	3.0	3.0					
				3.0					
				2.0					
10 / -10							Note: End of boring at 10.0' bgs due to concrete slab.		
15 / -15									

Remarks: Hand auger to 5.0' bgs. Hit refusal on two separate attempts. Backfilled with bentonite and finished with concrete to match surface.

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Figures



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quad., Flint North, Mich. (1969, Photorevised 1975).

2000' 0 2000'

Approximate Scale: 1" = 2000'



Area Location

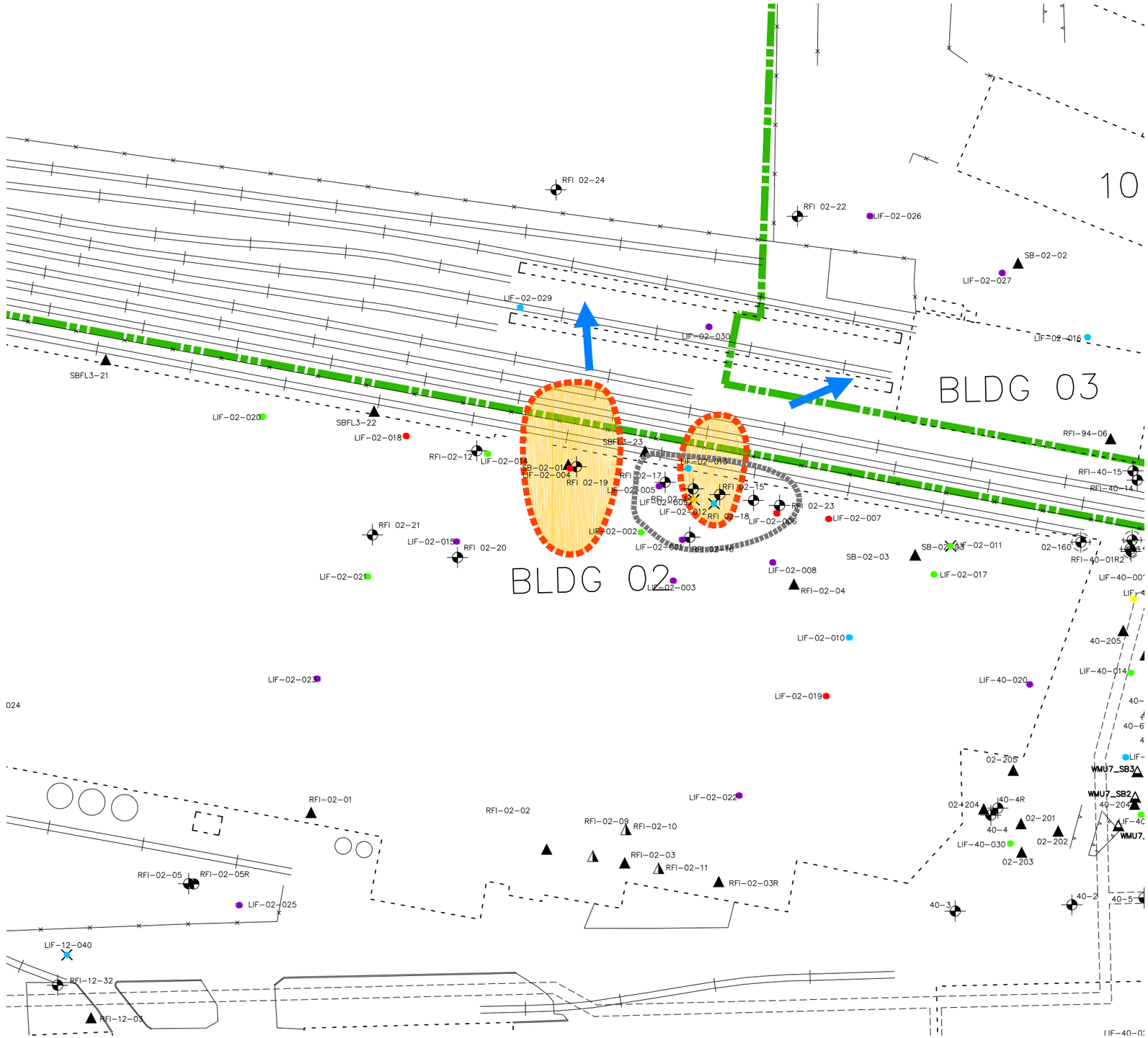
RACER TRUST
BUICK CITY, FLINT, MICHIGAN

SITE LOCATION MAP

ARCADIS

FIGURE
M1-1

03/12/2012 SYRACUSE, NY-ENV/CAD-141-DJHOWES
B0064410/2012/01202/CDR/64410N01.CDR



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- DEMOLISHED BUILDING
- GENERAL GROUNDWATER FLOW DIRECTION

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200
- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

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FLINT, MICHIGAN

AOI 02-B
INVESTIGATION LOCATIONS AND LNAPL E□TENTS

ARCADIS

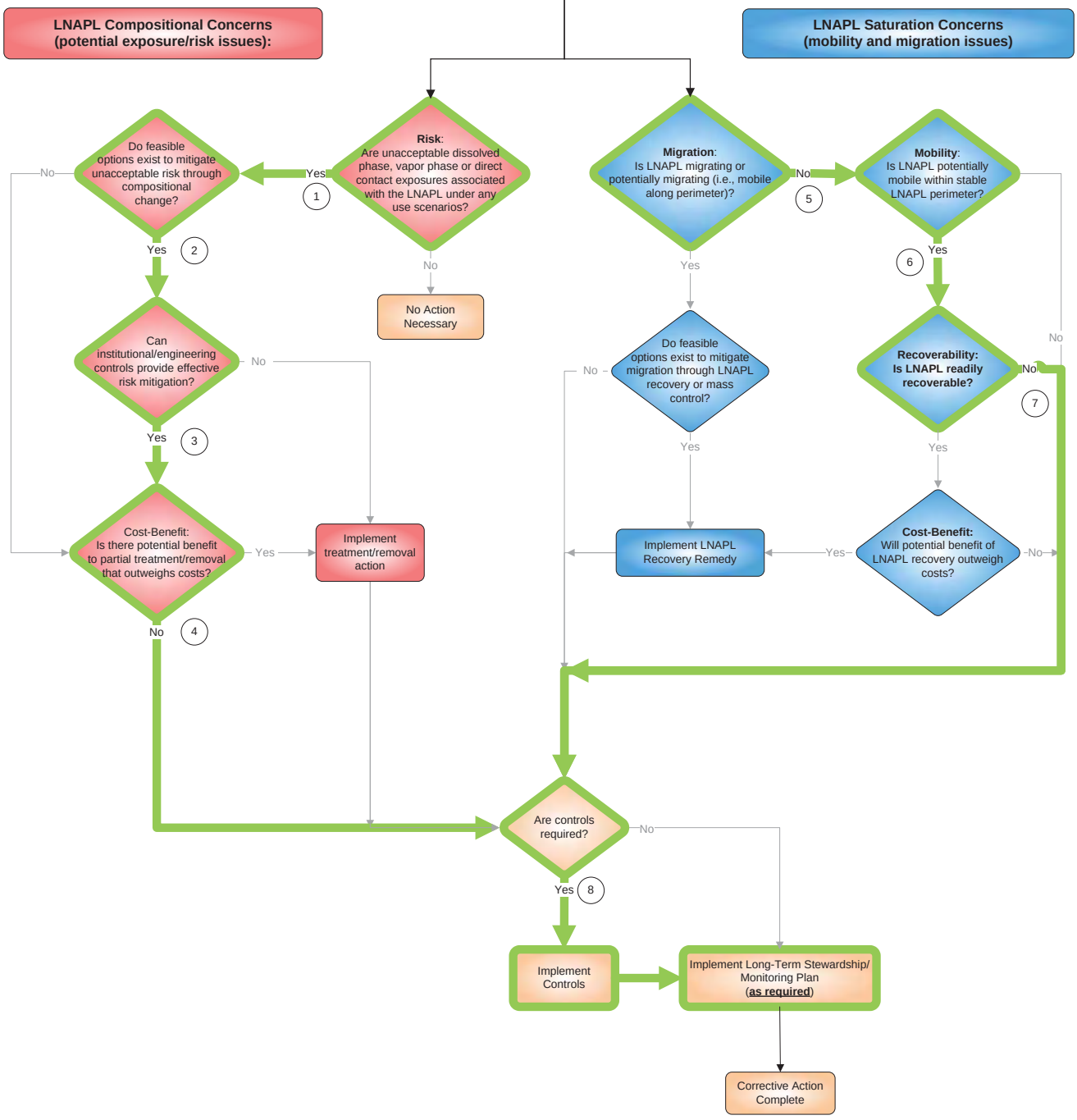
FIGURE
M1-2

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIVE\B0064410\2014\0026\B64410_AOI 02-B.dwg LAYOUT: M1-2 SAVED: 1/30/2014 5:04 PM ACADVER: 18.1S (LMS TECH)
IMAGES: PROJECTNAME: ---- (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 8/28/2014 10:05 AM BY: SANCHEZ, ADRIAN

Attachment 2

LNAPL Remedial Decision Tree

Attachment 2 LNAPL Remedial Decision Tree Priority #16 – AOI 02-B Hydraulic Oil Area



NOTES

(#) NOTES: See Page M2-2

Please see Appendix W for the LNAPL Remedial Decision Tree Template that lists additional sources of pertinent information used in the evaluation of the decision points (i.e. tables).

Attachment 2 Notes

Priority #16 - AOI 02-B Hydraulic Oil Area

Background: The area of interest (AOI) 02-B Hydraulic Oil Area (AOI 02-B light non-aqueous phase liquid [LNAPL] Area) is located at the Southend of the Site in the eastern portion of the former Building 02 footprint. Historically, the Building 02 housed the GM Machine Tool Division/Plastics Area and the AOI 02-B LNAPL Area is presumably due to historic releases associated with the plant operations. There are currently no buildings within the AOI 02-B LNAPL Area.

Geology and Hydrogeology: The soils at AOI 02-B LNAPL Area consist of primarily sands and fill materials from 0 to 6 feet bgs in the northern portion of the AOI 02-B LNAPL Area and 0 to 12 feet bgs in the southern portion of the AOI 02-B LNAPL Area. The sands and fill material are underlain by clays to approximately 18 feet bgs. Depth to groundwater in this area averages around 4 to 6 feet bgs. Based on historic fluid level gauging data, groundwater flow in this portion of the Site is generally to the east and southeast.

LNAPL Characteristics: Soil boring logs and LIF logs indicate that LNAPL in the AOI 02-B Area show evidence of LNAPL impacts from as shallow as 6 feet bgs and as deep as 15 feet bgs. The AOI 02-B LNAPL Area includes three monitoring wells (RFI-02-14, RFI-02-15, and RFI-02-19) where LNAPL thicknesses greater than 0.5 feet have been measured. Historically, monitoring wells RFI-02-12, RFI-02-16, RFI-02-18, and RFI-02-23 have only had sheens and minimal thicknesses (0.01 feet) of LNAPL measured intermittently. At AOI 02-B, the LNAPL has a viscosity of 362 centipoise (cp), a density of 0.91 grams per cubic centimeter, interfacial tension of 32.4 dynes/centimeter, and a specific gravity of 0.91.

1) *Are unacceptable dissolved phase, vapor phase, or direct contact exposures associated with the LNAPL under any use scenarios?*

   YES – The following potential risk/exposure concerns are associated with the AOI 02-B LNAPL Area:
   - Potential Volatilization to Indoor Air Concerns for Future Structures: Theoretically, there is a potential unacceptable vapor phase exposure risk associated with methane for future redevelopment scenarios; however, this will be addressed by the proposed institutional controls.

2) *Do feasible options exist to mitigate unacceptable risk through compositional change?*

   YES – Targeted in-situ soil mixing/land farming to address the petroleum constituents may be technically feasible. However, other options evaluated were not feasible as discussed below:
   - Bench-scale testing of five technologies was conducted on samples collected from the Southend of the Site. Two of the technologies (enhanced dissolution and recovery via surfactant or hot water flushing) were tested on samples collected from AOI 02-B and the remaining three technologies were tested on samples from adjacent AOI 12-A, -B, & -C area, which had a similar geology and LNAPL type. The results of the testing were presented in the *LNAPL Remediation Technology Bench-Scale Testing Report (*ARCADIS, 2012b*)* and are summarized on **Tables 4A and 4B of the main report**. Based on the results of the bench-scale testing, the following observations are made from the AOI 02-B and AOI 12-A, -B & 16-C LNAPL testing:
     - Enhanced dissolution and recovery via surfactant or hot water flushing did not result in any additional LNAPL recovery.
     - The LNAPL constituents at AOI 02-B have low volatility rendering remedial technologies that rely on vapor-phase partitioning infeasible on a technical basis.
     - Remedial technologies relying on direct chemical destruction of COCs (in-situ chemical oxidation [ISCO]) are also technically infeasible, given that the desired chemical reactions occur within the aqueous phase only, and thus are rate-limited by dissolution of contaminants from the non-aqueous to aqueous phase.
     - Based on the results of simulated distillation testing, a significant portion of the LNAPL has a boiling point above 400°C and would be considered semi-volatile organic compounds (SVOCs). Steam or electric resistive heating (ERH) are not recommended for SVOCs because a higher temperature is required to volatilize these compounds.
     - In situ thermal remediation may be technically feasible for the area; however, it is not a viable option based on the proximity to CSX property and the rail lines.

3) *Can institutional/engineering controls provide effective risk mitigation?*

   YES – Based on the current understanding of risk conditions, the potential volatilization to indoor air risk can be effectively mitigated through the Site-wide institutional controls.

4) *Is there a potential benefit to partial treatment/removal that outweighs costs?*

   NO – The risk associated with this area is possible volatilization to indoor air of a future building due to methane generated by biodegradation of the LNAPL. Based on the current understanding of risk conditions, the volatilization to indoor air risk can be effectively mitigated through institutional controls.

5) *Is LNAPL migrating or potentially migrating (i.e. mobile along the perimeter)?*

NO – The LNAPL area appears to be stable. This finding is supported by the following lines of evidence:

- Well Gauging Data: Sentinel wells located around the periphery of the AOI 02-B LNAPL Area have remained free of LNAPL since monitoring began approximately 10 years ago. Additionally, there are two LIF borings to the east on CSX property that only show responses of a maximum of 10% RE, indicating no LNAPL impact.
- Age of LNAPL Release: Operations began in this portion of the Site in the 1910's and ceased in this portion of the Site ceased in late 1990's - early 2000's (no active LNAPL sources for at least 10 years). LNAPL bodies typically stabilize within 2 to 5 years after a release has been stopped (ITRC, 2012).

In addition, the outfall in this portion of the Site was bulkheaded during RFI activities and therefore does not provide a potential future migration pathway.

6) *Is LNAPL mobile within the stable LNAPL perimeter?*

YES – The LNAPL is mobile within the stable perimeter, as it is gauged in three monitoring wells. However, the viscosity of the LNAPL is 362 cp (similar to that of molasses), limiting its mobility and recoverability. Transmissivity results are presented in **Table 2 of the main report**.

7) *Is LNAPL readily recoverable?*

NO – Transmissivity testing was attempted at three monitoring wells (RFI-02-14, RFI-02-15, and RFI-02-19) at AOI 02-B; however, the wells were removed from the study because the LNAPL was too viscous to accurately measure. As mentioned above, the viscosity of the LNAPL at AOI 02-B is 362 cp, limiting its mobility and recoverability.

8) Are controls required?

YES – Site-wide Institutional Controls discussed in the main report will be necessary to limit potential for future exposure.

Attachment 3

Remedy Recommendations

Priority #16 - AOI 02-B Hydraulic Oil Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 3 – Recommended Remedy

This attachment presents the recommended remedies for the Area of Interest (AOI) 02-B Hydraulic Oil Area (AOI 02-B light non-aqueous phase liquid [LNAPL] Area).

1. Compositional and Saturation Concerns

The LNAPL Decision Tree Analysis presented in **Attachment 2** identified potential volatilization to indoor air as a compositional concern for the AOI 02-B LNAPL Area. Theoretically, there is a potential unacceptable vapor phase exposure risk associated with future redevelopment scenarios due to the biodegradation of LNAPL that results in the generation of methane.

2. Remedy Recommendation Rationale

The remedy recommended to address the compositional and saturation concerns associated with the AOI 02-B LNAPL Area is institutional controls, which are discussed in detail in Section 3. The rationale for this selection is detailed below:

- Based on the current understanding of risk conditions, the potential volatilization to indoor air risk for future structures can be effectively mitigated through the Site-wide institutional controls.
- Bench-scale testing indicated that enhanced dissolution and recovery via surfactant or hot water flushing did not result in any additional LNAPL recovery in the AOI 02-B LNAPL Area.
- Transmissivity testing was attempted at three monitoring wells (RFI-02-14, RFI-02-15, and RFI-02-19) at AOI 02-B; however, the wells were removed from the study because the LNAPL was too viscous to accurately measure. The viscosity of the LNAPL at AOI 02-B is 362 centipoise, limiting its mobility and recoverability. This indicates hydraulic LNAPL recovery is likely not practicable at this location.
- Respirometry testing indicated that naturally-occurring microbes are present at AOI 02-B. The microbes are depleting the LNAPL mass; however, LNAPL degradation rates are oxygen limited. Due to the geology at AOI 02-B, only land farming or passive venting would potentially be

applicable. Implementation of these technologies would not reduce risk at the AOI 02-B LNAPL Area in a significantly shorter timeframe than NSZD alone.

- An natural source zone depletion (NSZD) study was conducted at two locations located in the AOI 02-B LNAPL Area. The testing completed indicated that NSZD is occurring; however, the currently available testing technologies cannot reliably quantify the depletion beneath a concrete slab.
- The LNAPL is not migrating and the storm sewers in AOI 02-B have been bulkheaded.
- There are no soil or groundwater exceedances of applicable criteria.

3. AOI 02-B Remedy

The remedy recommended to address the compositional and saturation concerns associated with AOI 02-B LNAPL Area is to establish institutional controls. This remedy will prevent future worker exposure to LNAPL impacts in the long term.

3.1 Institutional Controls

Site-wide Institutional Controls discussed in the main report will be implemented to limit potential for future exposure.

Appendix M - Addendum No. 1

February 15, 2016

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Novi
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Fax 248 994 2241

MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER

From:
Micki M. Maki

Date:
February 15, 2016

ARCADIS Project No.:
B0064410.2016

Subject:
Remedy Recommendation Report
Appendix M - AOI 02-B Hydraulic Oil Area - Addendum No.1
Summary of Additional Investigations
RACER Buick City Site, Flint, Michigan

Introduction

This Addendum No. 1 to Remedy Recommendation Report Appendix M presents a summary of investigation data collected at the AOI 02-B Hydraulic Oil Area from March 19, 2014 through December 31, 2015 at the Buick City Site (Site) located in Flint, Michigan.

Summary of Investigation Activities

Additional subsurface investigation activities were completed at the AOI 02-B to investigate a laser-induced fluorescence (LIF) response near LIF-02-019 and to characterize methane concentrations in soil gas at the property boundary (**Figure M-A1-1**).

LIF-02-019 Investigation

A soil boring (SB-02-04) was completed at AOI 02-B to investigate the high fluorescence response identified at LIF boring LIF-02-019 and to determine whether LNAPL impacts were present at this location (**Figure M-A1-1**). SB-02-04 was completed to a depth of approximately 15 feet below ground surface (ft bgs) to

investigate the LIF impacts identified at LIF-02-019 from 7.5 to 14.5 ft bgs. No indications of LNAPL impact (elevated PID, staining, odors, sheens, etc.) were observed at soil boring SB-02-04.

Soil Gas Evaluation

Two soil gas sampling probes (SGP-02-B-01 and SGP-02-B-02) were installed to evaluate methane along the property boundary adjacent to the AOI 02-B LNAPL Areas. Two rounds of soil gas samples were collected from each probe in June and November 2015 and submitted to the laboratory for methane analysis. In addition the second round of samples were also analyzed for volatile organic compounds (VOCs) (**Table M-A1-1**). Neither methane nor any VOCs were detected in the four soil gas samples.

Table M-A1-1

Summary of Soil Gas Investigation
Remedy Recommendation Report Appendix M – AOI 02-B Hydraulic Oil - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	SGVI-NR	SGVI-SS-NR	SGP-02-B-01 3.5-4.0 06/18/15	SGP-02-B-01 3.5-4.0 11/20/15	SGP-02-B-02 3.5-4.0 06/18/15	SGP-02-B-02 3.5-4.0 11/20/15
VOC							
1,1,1-Trichloroethane	ppbv	6,100,000	610,000	NA	3.8 U	NA	3.8 U
1,1,2,2-Tetrachloroethane	ppbv	430	43	NA	0.75 U	NA	0.75 U
1,1,2-Trichloroethane	ppbv	2,000	200	NA	0.38 U	NA	0.38 U
1,1-Dichloroethane	ppbv	690,000	69,000	NA	3.8 U	NA	3.8 U
1,1-Dichloroethene	ppbv	280,000	28,000	NA	0.75 U	NA	0.75 U
1,2,4-Trichlorobenzene	ppbv	3,000	300	NA	3.8 U	NA	3.8 U
1,2,4-Trimethylbenzene	ppbv	250,000	25,000	NA	3.8 U	NA	3.8 U
1,2-Dibromoethane (Ethylene dibromide)	ppbv	38	3.8	NA	0.38 U	NA	0.38 U
1,2-Dichlorobenzene	ppbv	280,000	28,000	NA	3.8 U	NA	3.8 U
1,2-Dichloroethane	ppbv	1,600	160	NA	0.38 U	NA	0.38 U
1,2-Dichloropropane	ppbv	4,800	480	NA	0.75 U	NA	0.75 U
1,3,5-Trimethylbenzene	ppbv	250,000	25,000	NA	3.8 U	NA	3.8 U
1,3-Butadiene	ppbv	- -	- -	NA	3.8 U	NA	3.8 U
1,3-Dichlorobenzene	ppbv	2,800	280	NA	0.38 U	NA	0.38 U
1,4-Dichlorobenzene	ppbv	4,200	420	NA	0.75 U	NA	0.75 U
1,4-Dioxane	ppbv	- -	- -	NA	3.8 U	NA	3.8 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppbv	9,400,000	940,000	NA	3.8 U	NA	3.8 U
2-Hexanone	ppbv	41,000	4,100	NA	3.8 U	NA	3.8 U
2-Methylnaphthalene	ppbv	9,500	950	NA	15 U	NA	15 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppbv	4,100,000	410,000	NA	3.8 U	NA	3.8 U
Acetone	ppbv	14,000,000	1,400,000	NA	20 U	NA	20 U
Benzene	ppbv	6,500	650	NA	0.38 U	NA	0.38 U
Benzyl chloride	ppbv	680	68	NA	3.4 U	NA	3.4 U
Bromodichloromethane	ppbv	1,400	140	NA	0.38 U	NA	0.38 U
Bromoform	ppbv	15,000	1,500	NA	0.75 U	NA	0.75 U
Bromomethane (Methyl bromide)	ppbv	7,100	710	NA	0.75 U	NA	0.75 U
Carbon disulfide	ppbv	1,200,000	120,000	NA	3.8 U	NA	3.8 U
Carbon tetrachloride	ppbv	4,600	460	NA	0.38 U	NA	0.38 U
Chlorobenzene	ppbv	84,000	8,400	NA	3.8 U	NA	3.8 U
Chloroethane	ppbv	21,000,000	2,100,000	NA	3.8 U	NA	3.8 U
Chloroform (Trichloromethane)	ppbv	15,000	1,500	NA	0.75 U	NA	0.75 U
Chloromethane (Methyl chloride)	ppbv	130,000	13,000	NA	3.8 U	NA	3.8 U
cis-1,2-Dichloroethene	ppbv	9,800	980	NA	0.75 U	NA	0.75 U
cis-1,3-Dichloropropene	ppbv	- -	- -	NA	0.75 U	NA	0.75 U
Cyclohexane	ppbv	9,700,000	970,000	NA	3.8 U	NA	3.8 U
Dibromochloromethane	ppbv	830	83	NA	0.38 U	NA	0.38 U
Dichlorodifluoromethane (CFC-12)	ppbv	56,000,000	5,600,000	NA	0.75 U	NA	0.75 U
Ethyl acetate	ppbv	4,900,000	490,000	NA	3.8 U	NA	3.8 U
Ethylbenzene	ppbv	130,000	13,000	NA	0.75 U	NA	0.75 U
Hexachlorobutadiene	ppbv	740	74	NA	0.75 U	NA	0.75 U

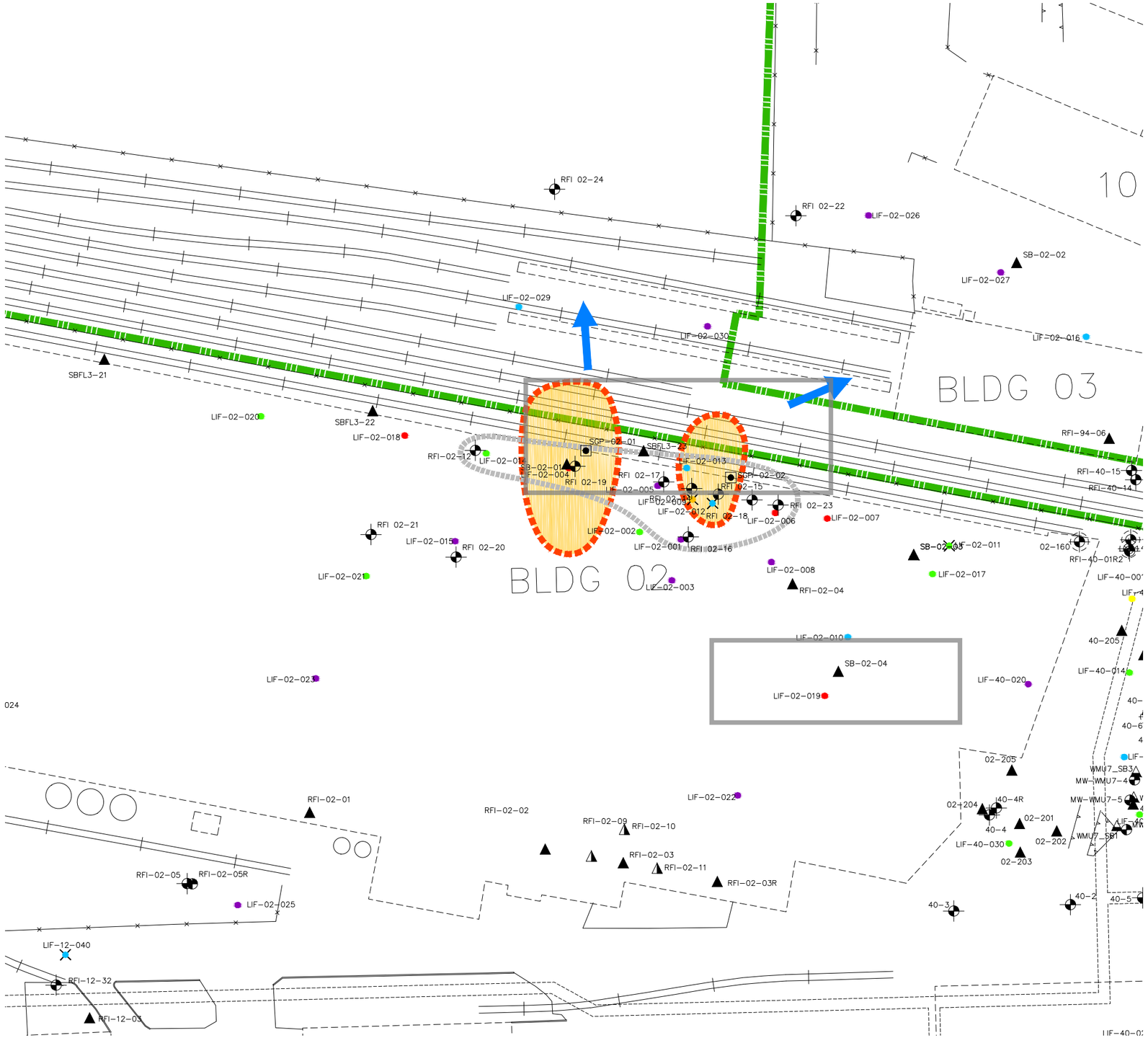
Table M-A1-1

Summary of Soil Gas Investigation
Remedy Recommendation Report Appendix M – AOI 02-B Hydraulic Oil - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	SGVI-NR	SGVI-SS-NR	SGP-02-B-01 3.5-4.0 06/18/15	SGP-02-B-01 3.5-4.0 11/20/15	SGP-02-B-02 3.5-4.0 06/18/15	SGP-02-B-02 3.5-4.0 11/20/15
Hexane	ppbv	1,100,000	110,000	NA	3.8 U	NA	3.8 U
Isopropyl alcohol	ppbv	- -	- -	NA	3.8 UL	NA	3.8 UL
m&p-Xylene	ppbv	- -	- -	NA	3.8 U	NA	3.8 U
Methyl tert butyl ether (MTBE)	ppbv	4,600,000	460,000	NA	3.8 U	NA	3.8 U
Methylene chloride	ppbv	180,000	18,000	NA	7.5 U	NA	7.5 U
Naphthalene	ppbv	2,800	280	NA	3.8 U	NA	3.8 U
N-Heptane	ppbv	4,700,000	470,000	NA	3.8 U	NA	3.8 U
o-Xylene	ppbv	- -	- -	NA	3.8 U	NA	3.8 U
Styrene	ppbv	71,000	7,100	NA	3.8 U	NA	3.8 U
Tetrachloroethene	ppbv	33,000	3,300	NA	0.38 U	NA	0.38 U
Tetrahydrofuran	ppbv	34,000	3,400	NA	3.8 U	NA	3.8 U
Toluene	ppbv	7,400,000	740,000	NA	3.8 U	NA	3.8 U
trans-1,2-Dichloroethene	ppbv	98,000	9,800	NA	3.8 U	NA	3.8 U
trans-1,3-Dichloropropene	ppbv	- -	- -	NA	0.75 U	NA	0.75 U
Trichloroethene	ppbv	2,100	210	NA	0.39 U	NA	0.39 U
Trichlorofluoromethane (CFC-11)	ppbv	56,000,000	5,600,000	NA	3.8 U	NA	3.8 U
Trifluorotrichloroethane (Freon 113)	ppbv	14,000,000	1,400,000	NA	3.8 U	NA	3.8 U
Vinyl acetate	ppbv	320,000	32,000	NA	3.8 U	NA	3.8 U
Vinyl chloride	ppbv	15,000	1,500	NA	0.75 U	NA	0.75 U
Xylene (total)	ppbv	130,000	13,000	NA	7.5 U	NA	7.5 U
Volatile Organics							
Methane	ppmv	12,500	12,500	10 U	19 U	10 U	18 U

Notes:
ppbv - parts per billion by volume
ppmv - parts per million by volume
ft - feet
NA - Not Analyzed
U – not detected above the reporting limit
Shaded and bolded results exceed one or more criteria.

SGVI-SS-NR - Nonresidential Vapor Intrusion Shallow Soil Gas (sub-slab) Screening Levels .Samples collected less than or equal to 1.5
SGVI-NR - Nonresidential Vapor Intrusion Deep Soil Gas Screening Levels*
* - SGVI presented in this table are health-based values. The applicable SGVI are based on the higher of the health-based value and the



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- SOIL GAS PROBE
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- DEMOLISHED BUILDING
- GENERAL GROUNDWATER FLOW DIRECTION

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200
- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 02/15/2016.

0 40' 80'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 02-B INVESTIGATION LOCATIONS AND LNAPL EXTENTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
M-A1-1

CITY: SYRACUSE DIV/GROUP: ENV DB: A.SANCHEZ LD: ALS/GMS PIC: C.S.PETERS PM: C.KIKER TM: C.KIKER LYR: ON=*;OFF=*REF*
G:\ENV\CAD\SYRACUSE\ACTIVITIES\0064410\2016\0020\764410_AOI02-B.dwg LAYOUT: M-A1-1 SAVED: 2/11/2016 11:20 AM ACADVER: 19.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 2/11/2016 12:21 PM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME: ----

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Appendix N

AOI 36-5 Fuel Oil Area
Remedy Recommendation Memo

ARCADIS of Michigan, LLC
28550 Cabot Drive
Suite 500
Novi
Michigan 48377
Tel 248 994 2240
Fax 248 994 2241

MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER
Chris Peters, ARCADIS
Steve Gaito, ARCADIS

From:
Micki M. Maki
Victoria Stacey

Date:
August 29, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
Priority #17 - AOI 36-5 Fuel Oil LNAPL Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

As part of the light non-aqueous phase liquid (LNAPL) remedy evaluation process, the Site's 17 LNAPL Areas were prioritized based on risk. The area of interest (AOI) 36-5 Fuel Oil LNAPL Area (AOI 36-5 LNAPL Area) is ranked as Priority #17 with a total potential risk score of 0 (**Table 5 of the main report**). A conceptual site model cross-section is attached (**Figure N-1**) that provide an overview of the AOI 36-5 LNAPL Area impacts and interim measures (IMs).

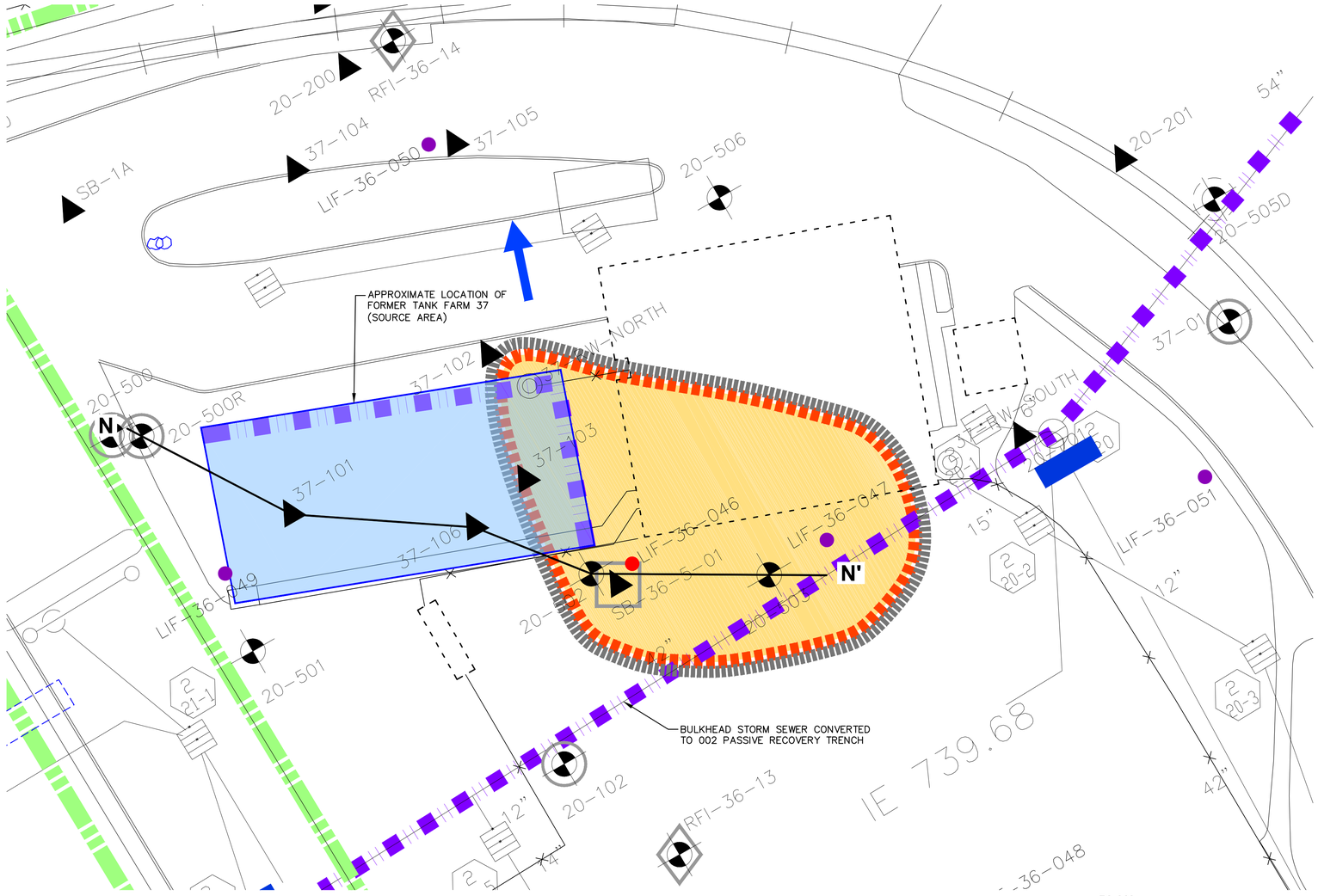
Historical IMs completed at the AOI 36-5 LNAPL Area include excavation, operation of recovery trenches and sumps, and an LNAPL bailing program. The partial and effective removal of LNAPL has been completed in this area is considered a component of the remedy.

The compositional and saturation concerns identified for the AOI 36-5 LNAPL Area were evaluated in the LNAPL decision tree (**Attachment 2**) and are summarized below:

- Theoretically, there is a potential unacceptable vapor phase exposure risk associated with methane for future structures; however, this will be addressed by the proposed institutional controls.
- The Outfall 002 and 003 storm sewers have been bulkheaded in this portion of the Site, so the GSI pathway is not applicable.

- Although remedy options such as surfactant-enhanced recovery or soil mixing may be feasible at the AOI 36-5 LNAPL Area, an LNAPL recovery system has operated at this plume for approximately 20 years; therefore, partial and effective LNAPL recovery has already been completed and a transition to institutional controls is now appropriate.

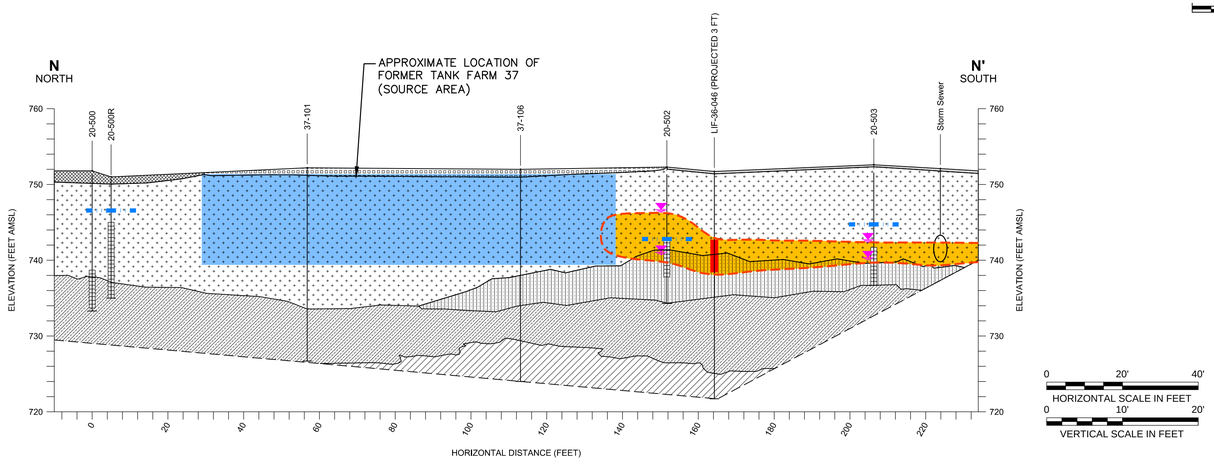
Based on the current understanding of the conceptual site model, the potential vapor phase risk associated with the AOI 36-5 LNAPL Area can be effectively mitigated through institutional controls.



PLAN

0 20' 40'

GRAPHIC SCALE

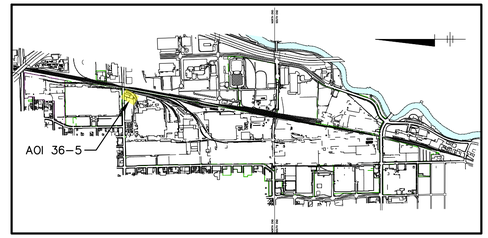


0 20' 40'

HORIZONTAL SCALE IN FEET

0 10' 20'

VERTICAL SCALE IN FEET



SITE MAP

0 2000' 4000'

SCALE IN FEET

AOI 36-5 FUEL OIL AREA

KEY LNAPL COMPOSITION AND SATURATION CONCERNS

1) LNAPL INFILTRATION TO OUTFALL 002 STORM SEWER
2) POTENTIAL VOLATILIZATION TO INDOOR AIR CONCERNS FOR FUTURE STRUCTURES

COMPLETED INTERIM MEASURES AND RECOMMENDED REMEDIES

R-1) TANK FARM (SOURCE AREA) EXCAVATED (IM COMPLETED)

R-2) PASSIVE RECOVERY TRENCHES ~20 YEARS OF LNAPL RECOVERY (IM COMPLETED)

R-3) OUTFALL 002 STORM SEWER BULKHEAD (IM COMPLETED)

R-4) 002 PASSIVE RECOVERY TRENCH MONITORING (IN PROGRESS)

R-5) INSTITUTIONAL CONTROLS

NOTES:

1. BASE MAP INFORMATION FROM SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.
2. GEOLOGY NOT INTERPRETED FROM LASER INDUCED FLUORESCENCE (LIF) BORINGS.
3. BASED ON INFORMATION AVAILABLE AS OF 03/19/14.
4. FILL CONSIST PRIMARILY OF SAND AT 20-500 AND SILTY SANDS AT 20-502 AND 20-203.

RACER TRUST
BUICK CITY, FLINT, MICHIGAN

AOI 36-5
CONCEPTUAL SITE MODEL
CROSS SECTION N-N'

ARCADIS

FIGURE
N-1

CITY:SYRACUSE DIV/GROUP:ENV DB:A.SANCHEZ LD:AS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB0064410\2014\60206\Xsections\64410V01.DWG LAYOUT: N-1 SAVED: 9/3/2014 4:48 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: BBL-FULL.CTB PLOTTED: 9/3/2014 4:56 PM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME: ----

LEGEND

PROPERTY BOUNDARY

HISTORICAL LNAPL EXTENT

CURRENT LNAPL EXTENT

STORM SEWER

ABANDONED STORM SEWER LATERAL

APPROXIMATE LOCATION OF RECOVERY TRENCH

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

A1 — A1' LINE OF SECTION

RFI MONITORING WELL LOCATION

MONITORING WELL LOCATION

RECOVERY WELL (NAPL) LOCATION

PIEZOMETER LOCATION

SOIL BORING LOCATION

DECOMMISSIONED WELL LOCATION

EVIDENCE OF PRODUCT OBSERVED IN SOIL

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

- <5
- 5–10
- 10–100
- 100–200
- >200

HAND AUGER REFUSAL (TOP 5')

GROUNDWATER SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA

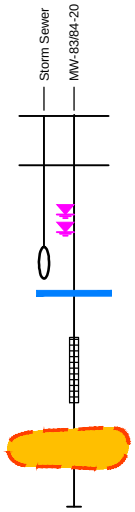
GROUNDWATER SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA

SOIL SAMPLE DOES NOT EXCEED APPLICABLE CRITERIA

SOIL SAMPLE EXCEEDS ONE OR MORE APPLICABLE CRITERIA

SOIL AND GROUNDWATER SAMPLES DO NOT EXCEED APPLICABLE CRITERIA

SOIL AND GROUNDWATER SAMPLES EXCEED ONE OR MORE APPLICABLE CRITERIA



WELL/BORING ID

EXISTING GRADE

LITHOLOGICAL CONTACT (DASHED WHERE INFERRED)

NAPL LEVEL (HISTORIC HIGH AND LOW LEVELS)

WATER TABLE

WELL SCREEN

APPROXIMATE EXTENT OF LNAPL

WELL/BORING BOTTOM

- ASPHALT
- CONCRETE
- CLAY
- FILL
- GRAVEL
- INTERBEDDED SAND AND CLAY
- INTERBEDDED SANDS AND SILTS
- INTERBEDDED SILT AND CLAY
- SAND
- SILT
- SILTY SAND

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

CROSS SECTION LEGEND

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FIGURE
N-2

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB0064410\2014\00206\Xsections\64410V01.DWG LAYOUT: 1A SAVED: 7/11/2014 11:58 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: BBL-FULL.CTB PLOTTED: 7/11/2014 1:56 PM BY: SANCHEZ, ADRIAN
XREFS: IMAGES: PROJECTNAME: ---
Xr64410X3Bsp
Xr64410XDrainage
Xr64410X01
Xr64410XLIFsp2
Xr64410X01
Xr64410XAOI
Xr64410XLNAPL

Attachment 1

LNAPL Conceptual Site Model

Priority #17 - AOI 36-5 Fuel Oil LNAPL Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 1 - Conceptual Site Model

This attachment presents a conceptual site model (CSM) for the Area of Interest (AOI) 36-5 Fuel Oil light non-aqueous phase liquid (LNAPL) Area (AOI 36-5 LNAPL Area), which is located at the Buick City Site (Site) located in Flint, Michigan (**Figure N1-1**).

1. Background

A release (C-0282-90) was reported from former Tank Farm 37 and is the source of the AOI 36-5 LNAPL Area. Tank Farm 37 consisted of 17 underground storage tanks (USTs) (16 12,000-gallon USTs and 1 6,000-gallon UST) containing various thinners, gasoline and oils. Integrity testing of the tanks was conducted in 1989 after analysis of samples completed at the Tank Farm 37 area suggested that a release had occurred. Integrity testing indicated that the release was likely from two of the USTs, which were then removed from service. As part of initial abatement measures in February 1990, groundwater and free-product recovery trenches were installed along the east and south sides of the excavation. In August 1990, a new AST farm was constructed immediately south of this area and the remaining 15 tanks were removed from service. The groundwater and free-product recovery trenches were in operation until 2011.

Investigation data previously presented in Site reports are not re-presented in this memo. However, pertinent AOI 36-5 investigation data that has not previously been presented in a Site report is included in this memo.

2. Former Interim Measures

2.1 Tank Farm 37 Excavation

In 1989, following the identification of a release from Tank Farm 37 the leaking tanks were taken out of service. In 1991, all 17 USTs associated with the tank farm were excavated along with approximately 3,300 cubic yards of impacted soils.

In 1992, six additional soil borings (37-101 through 37-106) were completed in the former Tank Farm 37 area. Staining, elevated photoionization detector readings and/or odors were noted at borings 37-101, 37-102, 37-103, and 37-106.

Additional information regarding the tank farm excavation and installation of the LNAPL recovery trenches and sumps is available in the *Description of Current Conditions Report – North of Leith Street*, presented in **Appendix Y**.

2.2 LNAPL Recovery Trenches and Sumps

As part of initial abatement measures in February 1990, groundwater and free-product recovery trenches were installed along the east and south sides of the excavation area. These trenches are 3 feet wide and filled with gravel from approximately 2 feet bgs to approximately 14 feet bgs and are sloped toward a 26-inch-diameter recovery well/sump located along the south side of the excavation area. This recovery well/sump (37-RW-North) is installed to a depth of 17 feet bgs and screened from 6 to 13 feet bgs. In addition, a second 26-inch diameter sump (37-RW-South) was installed south of the newly constructed tank farm to a depth of 14 feet bgs. Collected fluids were routed to the Site's industrial wastewater treatment facility.

This system is no longer active as the wastewater treatment facility was decommissioned in 2011. It is unknown how much LNAPL was recovered over the duration of the systems operation. The approximate location of these trenches is shown on the CSM, **Figure N-1.**

2.3 LNAPL Monitoring and Bailing Program 2001 - 2002

The two recovery sumps (37-RW-North and 37-RW-South), as well as nearby monitoring wells 20-502, 20-503, and RFI-36-13, were monitored and manually bailed as part of the Site-wide LNAPL monitoring program. From July 2001 to March 2002, the LNAPL thickness ranged from about 0.1 to 2.5 feet in the monitoring wells, and a total of approximately 11 gallons of LNAPL was recovered as part of this monitoring program.

2.4 LNAPL Monitoring and Bailing Program 2003 – 2005

During the 2003 to 2005 Site-wide LNAPL monitoring and bailing program LNAPL was recovered from two monitoring wells (20-502 and 20-503) in the AOI 36-5 LNAPL Area. A total of approximately 6.5 gallons of LNAPL were removed as part of this monitoring program.

3. AOI 36-5 LNAPL Area Site Setting and Data Summary

This section provides a summary of the geology, hydrogeology, analytical data, and LNAPL characteristics and extent of impacts for AOI 36-5 LNAPL Area. **Figure N1-2** presents the locations of the existing and abandoned monitoring wells and soil borings in the AOI 36-5 LNAPL Area.

3.1 AOI 36-5 LNAPL Area Geology and Hydrogeology

- *Geology*: Soil boring and monitoring well logs in the vicinity of the AOI 36-5 LNAPL Area indicates that the soils consist primarily of sand and silty sand down to 13 feet bgs.

- *Groundwater/LNAPL Levels:* Six monitoring wells (20-500R, 20-502, 20-503, 20-506, RFI-36-13, and RFI-36-14) and two recovery wells (37-RW-North and 37-RW-South) at the AOI 36-5 LNAPL Area are gauged to monitor the extent of the LNAPL. Depth to groundwater (or LNAPL, where present) in this area ranges from 8 to 11 feet bgs. Historically, LNAPL has been gauged in the two recovery wells, as well as monitoring wells RFI-36-13, 20-502, and 20-503; however, in recent years LNAPL has not been detected at RFI-36-13 and during the most recent gauging events LNAPL was only detected in monitoring well 20-502 and recovery well 37-RW-North at thicknesses of 3.77 feet and 0.05 feet, respectively

  Based on historic fluid level gauging data, groundwater flow in this portion of the Site is generally to the east and southeast. All pertinent groundwater data is presented in **Appendix X**.

3.2 Groundwater and Soil Analytical Data

Analytical data were compared to applicable Michigan Part 201 non-residential criteria. Pertinent analytical data is presented in **Appendix X**.

3.2.1 Groundwater Analytical Data

Groundwater concentrations in the AOI 36-5 LNAPL Area do not exceed applicable non-residential criteria.

3.2.2 Soil Volatile Organic Compound (VOC), Semi-Volatile Organic Compound (SVOC), and Metals Analytical Data

During recent investigation activities a soil boring was attempted at AOI 36-5. Due to subsurface obstruction only one soil sample was able to be collected from a depth of 0.5 to 2 feet bgs. The sample concentrations did not exceed applicable non-residential criteria.

3.2.3 Groundwater Surface Water Interface (GSI) Evaluation

As discussed in further detail in **Appendix BB**, GSI exceedances in the Site storm sewers are being

evaluated by the ongoing NPDES Plus Monitoring Program (NPMP). AOI 36-5 was primarily serviced by the Outfall 002 storm sewer; however, there is also a lateral for the Outfall 003 storm sewer located downgradient of the AOI 36-5 LNAPL Area. In 2013 the Outfall 002 storm sewer was bulkheaded at the property boundary to eliminate LNAPL infiltration and the Outfall 003 lateral was bulkheaded as part of the remedy for the AOI 10-1/10-4 LNAPL Area. Therefore, the GSI pathway is not applicable at AOI 36-5.

3.2.4 Soil PCB Analytical Data

Polychlorinated biphenyls (PCBs) were not detected in the soil samples collected from the AOI 36-5 LNAPL Area.

3.2.5 Vapor Intrusion Evaluation

Due to the presence of shallow groundwater and LNAPL (approximately 5 feet below ground surface) at the AOI 36-5 LNAPL Area, groundwater data were also compared to the applicable Non-Residential Screening Values For the Vapor Intrusion Pathway presented in the *Michigan Department of Environmental Quality (MDEQ) Guidance Document for the Vapor Intrusion Pathway* (further discussed in Section 3.4 of the Report). Groundwater concentrations do not exceed applicable screening levels.

As there are no structures at the Site the MDEQ Part 201 criteria are appropriate for comparison of soil data. Soil data did not exceed applicable screening levels.

3.3 LNAPL Characteristics

- *LNAPL Analytical Data:* LNAPL present at AOI 36-5 consists primarily of fuel oil. Additional analysis indicate that:
  - The LNAPL has a viscosity of 5.5 centipoise (cp), an interfacial tension of 18 dynes/centimeter, and a specific gravity of 0.89. This data is used to evaluate LNAPL recoverability and as part of the LNAPL transmissivity analysis.
  - The concentration of trichloroethene (1.5 mg/kg) exceeds toxicity characteristic leaching procedure (TCLP) criteria; however, TCLP analysis has not been conducted.
  - No PCBs have been detected in the LNAPL samples collected from the AOI 36-5 area.
  - The Human Health Risk Assessment (HHRA) completed during the Phase II RFI Report did not identify any risks associated with the AOI 36-5 LNAPL plume.

  For reference, the viscosity (at 100 degrees Fahrenheit) of olive oil is 43.2 cp and honey is 73.6 cp (Ingersoll-Rand, 1981).

- *LIF Data:* Seven laser-induced fluorescence (LIF) borings were completed in the AOI 36-5 LNAPL Area. The LIF response at AOI 36-5 area is consistent with the known LNAPL type, fuel oil. Only one of the borings (LIF-36-46) completed exhibited an LIF

impact greater than 5%. The vertical range of impact at this location is 11.5 to 16 feet bgs. **Figure N1-2** presents the results of the LIF investigation.

- *Transmissivity:* Transmissivity testing has not been completed at the AOI 36-5 LNAPL Area because there is insufficient accumulation of LNAPL in monitoring wells or the well did not meet the study criteria (as discussed in the main report).
- Natural Source Zone Depletion (NSZD): NSZD testing was not attempted at the AOI 36-5 LNAPL Area due to the presence of a concrete slab. The testing completed at the Southend of the Site at areas with similar oil types and in similar soils indicated that NSZD is occurring; however, the currently available testing technologies cannot reliably quantify the depletion beneath a concrete slab.

3.4 Extent of LNAPL

During the RCES preparation, the AOI 36-5 LNAPL Area was calculated based on available Site data. The footprint of the area containing approximately 0.5 ft. or greater of LNAPL was estimated to be approximately 9,300 square feet. The LIF logs indicated the depth of impacts to be 11 to 16 feet bgs at the AOI 36-5 area. Although during the most recent LNAPL gauging event LNAPL was not observed at 20-503, additional monitoring is necessary prior to revising the extent of the area (as discussed in Section 2.1.3 of the main report).

Boring Logs

Date Start: 9/13/13
Date Finish: 9/13/13
Drilling Company: Cascade
Driller's Name: Dan O'Mara
Drilling Method: Hand Auger
Sampling Method: Hand Auger
Rig Type: Sonic
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: 566928.78
Easting: 13306713.55
Casing Elevation: NA

Borehole Depth (ft. bgs.): 3.0'
Surface Elevation: 751.64

Descriptions By: Drew Shaw

Well/Boring ID: **SB-36-5-01**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: 60 degrees F, Cloudy

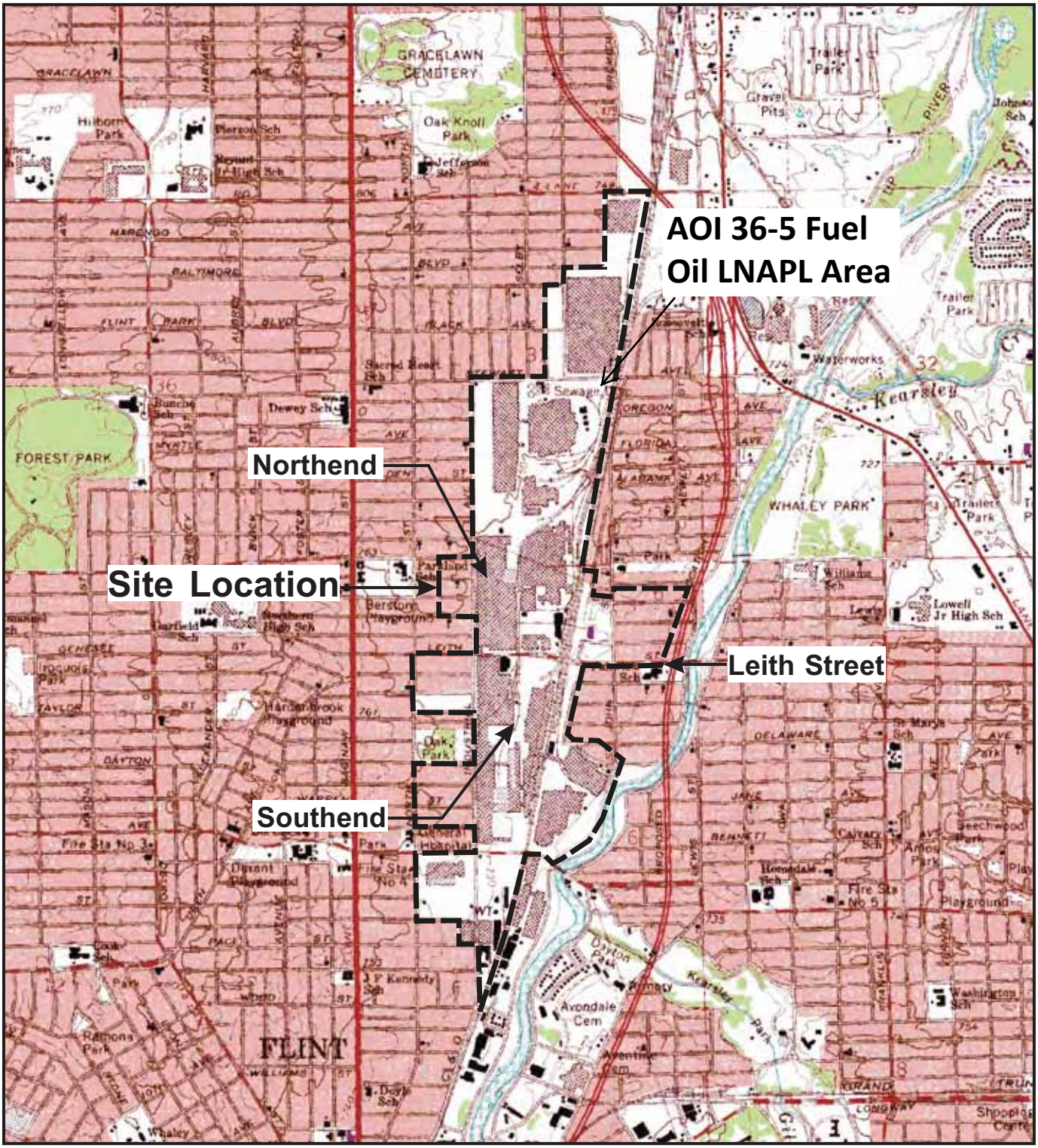
DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 750	1	0.0-3.0'	3.0	0.0 4.2 0.0			(0.0-0.3') ASPHALT. (0.3-0.5') ASPHALT BASE. (0.5-3.0') SAND, very fine to fine; little medium to coarse sand, subround; trace granules; subround; well sorted; dry; black (10YR 2/1). Note: Concrete slab at 3.0' bgs. End of boring at 3.0' bgs due to refusal.		Borehole abandoned with bentonite
5 / 745									
10 / 740									
15 / 735									
20									

ARCADIS
Infrastructure · Water · Environment · Buildings

Remarks: SB-36-5-1(0.5-2) collected at 1020.

ARCADIS

Figures



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quad., Flint North, Mich. (1969, Photorevised 1975).

2000' 0 2000'

Approximate Scale: 1" = 2000'



Area Location

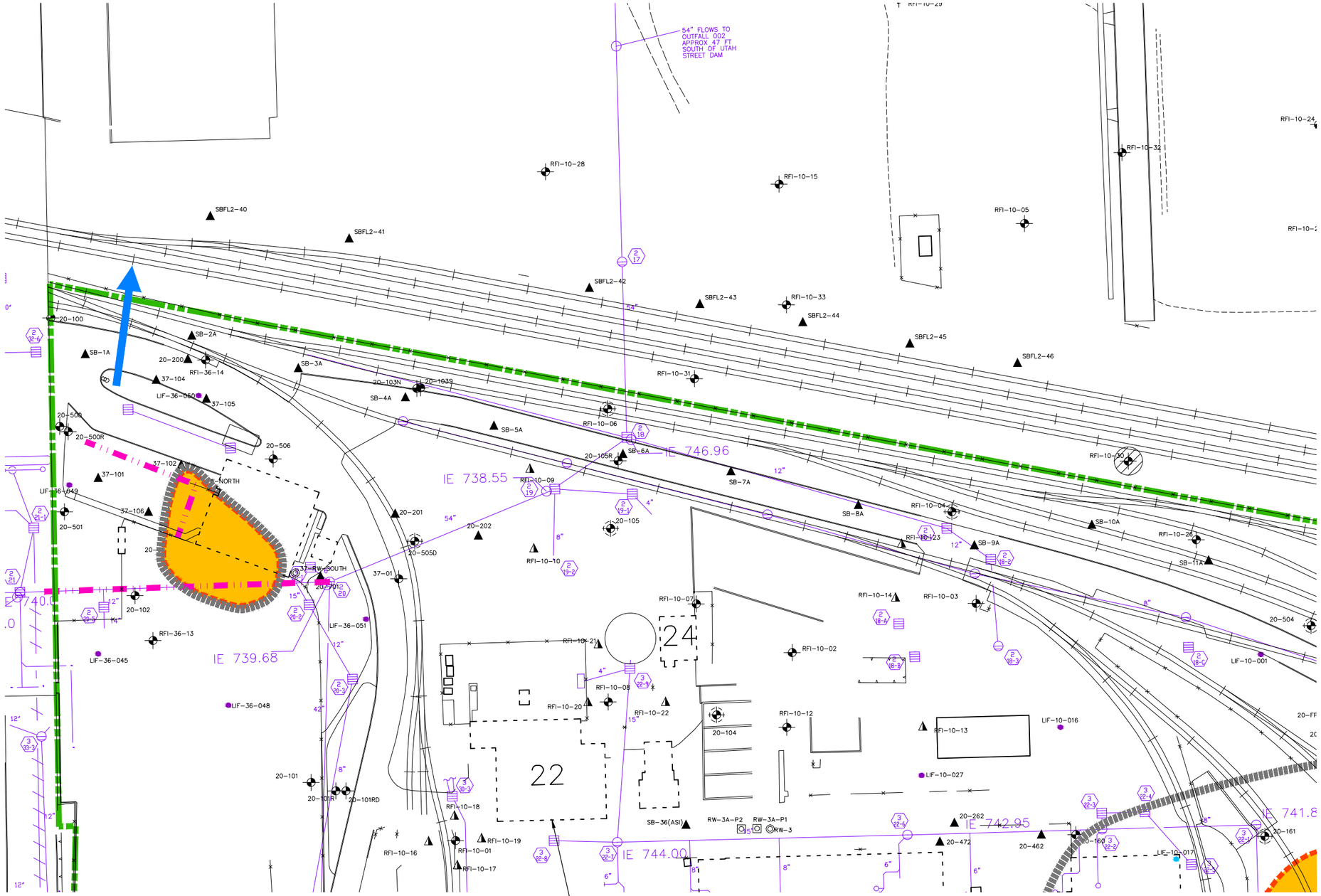
RACER TRUST
BUICK CITY, FLINT, MICHIGAN

SITE LOCATION MAP

ARCADIS

FIGURE
N1-1

03/12/2012 SYRACUSE, NY-ENV/CAD-141-DJHOWES
B0064410/2012/01202/CDR/64410N01.CDR



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- DEMOLISHED BUILDING
- RECOVERY TRENCH
- STORM SEWER LINE
- GENERAL GROUNDWATER FLOW DIRECTION

LASER INDUCED FLUORESCENCE RESPONSE (%RE)

COMPLETED BORINGS

- <5
- 5–10
- 10–100
- 100–200
- >200
- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 50' 100'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 36-5 INVESTIGATION LOCATIONS AND LNAPL EXTENTS

ARCADIS

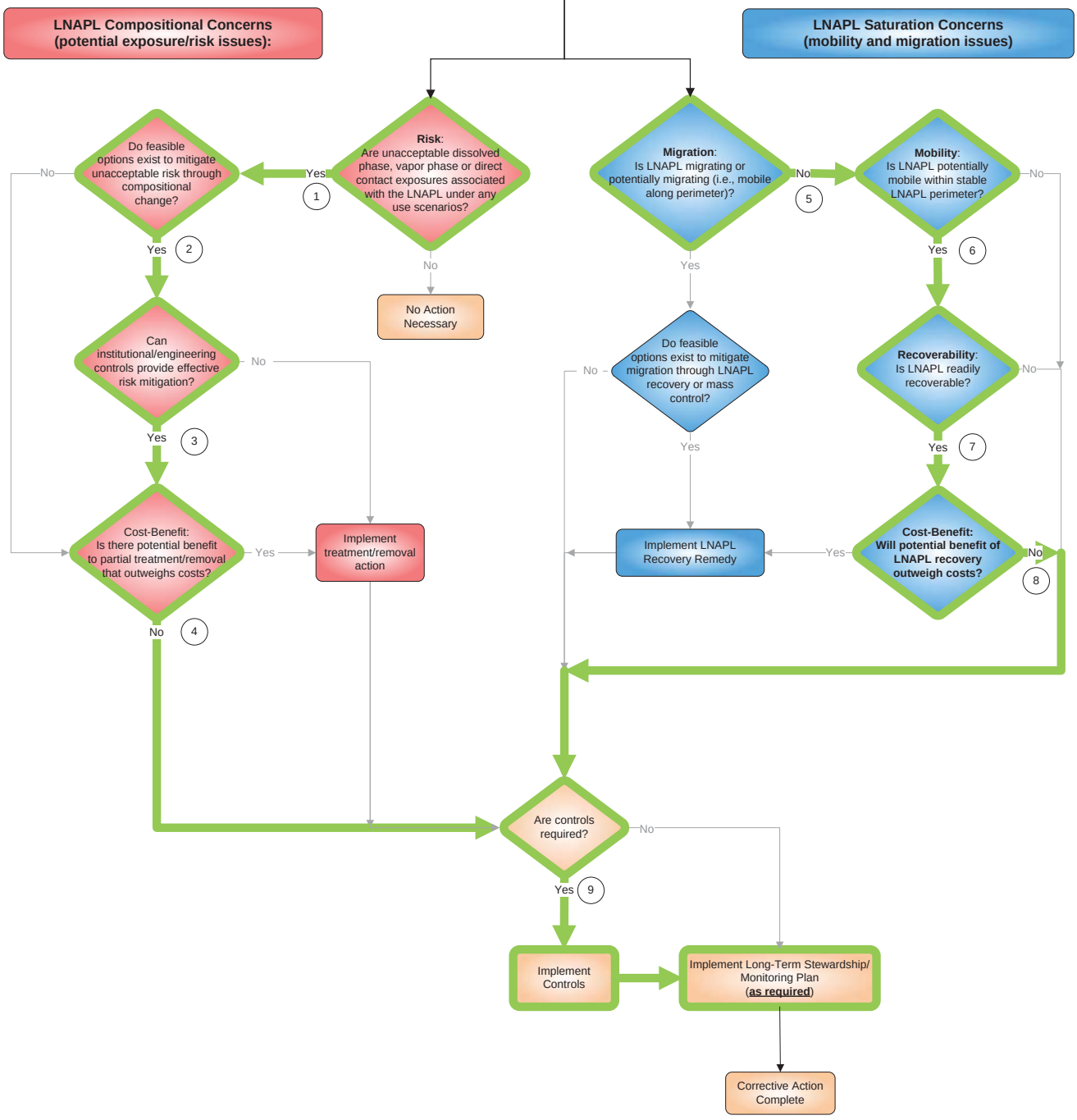
FIGURE
N1-2

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S.PETERS PM: C.KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIVE\B006441\0\20140026\B64410_AOI 36-5.dwg LAYOUT: N1-2 SAVED: 8/29/2014 10:17 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---
IMAGES: PROJECTNAME: ---
PLOTSTYLETABLE: ---- PLOTTED: 8/29/2014 10:19 AM BY: SANCHEZ, ADRIAN

Attachment 2

LNAPL Remedial Decision Tree

Attachment 2 LNAPL Remedial Decision Tree Priority #17 – AOI 36-5 Fuel Oil Area



NOTES

(#) NOTES: See Page N2-2

Please see Appendix W for the LNAPL Remedial Decision Tree Template that lists additional sources of pertinent information used in the evaluation of the decision points (i.e. tables).

Attachment 2 Notes

Priority #17 - AOI 36-5 Fuel Oil LNAPL Area

Background: The AOI 36-5 Fuel Oil LNAPL Area (AOI 36-5 LNAPL Area) is located in the Northend of the Site at former Tank Farm 37, located just south of Stewart Street. Former Tank Farm 37 consisted of 17 underground storage tanks (USTs) containing various thinners, gasoline and oils. Integrity testing conducted in 1989 identified two leaking tanks that were then removed from service. In August 1990, the remaining tanks were removed. A release (C-0282-90) was reported from former Tank Farm 37 and is the source of AOI 36-5 LNAPL Area. There are currently no buildings within the AOI 36-5 LNAPL Area footprint.

Geology and Hydrogeology: The soils at the AOI 36-5 LNAPL Area consist primarily of fill sand and silty sand down to approximately 13 feet below ground surface (bgs). Depth to groundwater in this area is generally 8 to 10 feet bgs. Based on historic fluid level gauging data, groundwater flow in this portion of the Site is generally to the east and southeast.

LNAPL Characteristics: The LIF logs indicated the depth of impacts to be 11 to 16 feet bgs at the AOI 36-5 LNAPL Area. Based on the most recent gauging data, LNAPL is currently detected at monitoring well 20-502 and recovery well 37-RW-North. The greatest thickness of LNAPL measured at AOI 36-5 was 3.77 feet gauged at 20-502 in 2013. No LNAPL was observed at 20-503 in 2013. At the AOI 36-5 LNAPL Area, the LNAPL has a viscosity of 5.5 centipoise (cp), interfacial tension of 18 dynes/centimeter (cm), and a specific gravity of 0.89. Trichloroethene was detected at a concentration that exceeds the RCRA toxicity characteristic criteria at one location (20-503); however, TCLP analysis has not been conducted.

1) *Are unacceptable dissolved phase, vapor phase, or direct contact exposures associated with the LNAPL under any use scenarios?*

   YES – The following potential risk/exposure concerns are associated with the AOI 36-5 Fuel Oil LNAPL Area:
   - Potential Volatilization to Indoor Air Concerns for Future Structures: Theoretically, there is a potential unacceptable vapor phase exposure risk associated with methane for future redevelopment scenarios; however, this will be addressed by the proposed institutional controls.

2) *Do feasible options exist to mitigate unacceptable risk through compositional change?*

   YES – The following is a general discussion regarding the feasibility of various compositional change remediation strategies for the AOI 36-5 LNAPL Area:
   - Based on the results of bench-scale testing completed at the AOI 40-A, -B, and 16-C Fuel Oil LNAPL Areas, which have a similar LNAPL type and geology, enhanced dissolution and recovery via surfactant or hot water flushing may enhance LNAPL recovery.
   - AOI 36-5 LNAPL Area constituents have low volatility, rendering remedial technologies that rely on vapor-phase partitioning infeasible on a technical basis.
   - In situ thermal remediation may be technically feasible for the area.
   - Targeted in-situ soil mixing/land farming using biological additives to address the petroleum constituents may be technically feasible.

3) *Can institutional/engineering controls provide effective risk mitigation?*

   YES – Based on the understanding of site conditions the potential volatilization to indoor air risk can be effectively mitigated through institutional controls.

4) *Is there a potential benefit to partial treatment/removal that outweighs costs?*

   NO – Following removal of the source for this LNAPL Area (Tank Farm 37) an LNAPL recovery system consisting of two recovery trenches and sumps was installed and operated for approximately 20 years; therefore, partial and effective LNAPL removal has already been completed. The potential volatilization risk can be addressed by institutional controls. A transition to institutional controls is now appropriate at the AOI 36-5 LNAPL Area.

5) *Is LNAPL migrating or potentially migrating (i.e. mobile along the perimeter)?*

   NO – The LNAPL area appears to be stable. This finding is supported by the following lines of evidence:
   - Well Gauging Data: Sentinel wells located downgradient of the AOI 36-5 LNAPL Area have remained free of LNAPL since monitoring began approximately 10 years ago.
   - Age of LNAPL Release: The source of the AOI 36-5 LNAPL Area is a former tank farm, which was removed in 1990 (no active LNAPL sources for at least 20 years). LNAPL bodies typically stabilize within 2 to 5 years after a release has been stopped (ITRC, 2012).

6) *Is LNAPL mobile within the stable LNAPL perimeter?*

   YES – LNAPL is present in one monitoring well and one recovery well/sump in the AOI 36-5 LNAPL Area indicating that LNAPL is mobile within the stable perimeter. In addition, historically LNAPL from AOI 36-5 was infiltrating the

Outfall 002 storm sewer; however, bulkheads and plugs have been installed to eliminate the Site's contribution to the storm sewer.

7) Is LNAPL readily recoverable?

YES – The results of historic interim measures (IM) indicate that in the past LNAPL has been recovered using recovery trenches and wells, and by bailing (summarized below). However it is uncertain whether future LNAPL recovery is practical.

- As part of initial abatement measures in February 1990, groundwater and free-product recovery trenches were installed along the east and south sides of the UST excavation area. These trenches are 3 feet wide and filled with gravel from approximately 2 feet bgs to approximately 14 feet bgs and are sloped toward a 26-inch-diameter recovery well/sump located along the south side of the excavation area. This recovery well/sump is installed to a depth of 17 feet bgs with screen placement at 6 to 13 feet bgs. In addition, a second sump was installed south of the newly constructed tank farm and is approximately a 26-inch-diameter sump constructed to 14 feet bgs. Collected fluids were routed to the Site's industrial wastewater treatment facility. This system is no longer active as the wastewater treatment facility was decommissioned in 2011. It is unknown how much LNAPL was recovered.
- From 2001 to 2005, three monitoring wells (20-502, 20-503, and RFI-36-13) located at AOI 36-5 were monitored as part of a Site-wide Quarterly LNAPL Monitoring Program. During the program, a total of 17.5 gallons of LNAPL was removed primarily from monitoring wells 20-502 and 20-503.

8) Will potential benefit of LNAPL recovery outweigh costs?

NO – Compositional and mobility concerns can be addressed through engineering and institutional controls. Additionally, The LNAPL source area (Tank Farm 37) has been removed and an LNAPL recovery system has operated at the AOI 36-5 LNAPL Area for approximately 20 years. Therefore, partial and effective LNAPL removal has already been completed and a transition to institutional controls is now appropriate. The marginal value of additional recovery does not justify the cost.

9) Are controls required?

YES – The following AOI-specific institutional controls are proposed, in addition to the Site-wide institutional controls, for the AOI 36-5 LNAPL Area to limit future exposure.

- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads as shown on **Figure 5 of the main report**.

Attachment 3

Remedy Recommendations

Priority #17 – AOI 36-5 Fuel Oil LNAPL Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

Attachment 3 – Recommended Remedy

This attachment presents the recommended remedies for the AOI 36-5 Fuel Oil light non-aqueous phase liquid (LNAPL) Area (AOI 36-5 LNAPL Area).

1. Compositional and Saturation Concerns

The LNAPL Decision Tree Analysis presented in **Attachment 2** identified potential volatilization to indoor air for future structures as a compositional concern and mobility as a saturation concern for the AOI 36-5 LNAPL Area. The potential volatilization to indoor air concern is due to the potential biodegradation of LNAPL generating methane that could potentially result in indoor air concerns for future structures. Historically, there was a mobility concern was due to the infiltration of LNAPL to the Outfall 002 storm sewer. However, Outfall 002 was bulkheaded at the RACER property boundary in 2013 as an interim measure (IM) and infiltration is no longer a concern.

2. Remedy Recommendation Rationale

The remedies recommended to address the compositional and saturation concerns associated with the AOI 36-5 LNAPL Area are institutional controls, which are discussed in detail in Section 3. The rationale for this selection is detailed below:

- The Outfall 002 storm sewer was bulkheaded in this portion of the Site to eliminate LNAPL infiltration.
- A lateral for the Outfall 003 storm sewer was located down gradient of the AOI 36-5 LNAPL Area; however, this lateral was bulkheaded as part of the remedy for the AOI 10-1/10-4 LNAPL Area. Therefore, the groundwater/surface water (GSI) pathway is not applicable at AOI 36-5.
- The original extent of the AOI 36-5 LNAPL Area included three monitoring wells (20-502, 20-503, and RFI-36-13) and two recovery wells (37-RW-North and 37-RW-South). However, in recent years LNAPL has not been observed at RFI-36-13 and during the most recent gauging events LNAPL was only detected in monitoring well 20-502 and recovery well 37-RW-North.

- Although remedy options such as surfactant enhanced recovery, in-situ thermal, or soil mixing may be feasible at the AOI 36-5 LNAPL Area, an LNAPL recovery system has already operated at this area for approximately 20 years. Partial and effective LNAPL removal has already been completed and a transition to institutional controls is now appropriate. Additional LNAPL removal will not materially change the risks associated with this area so there is no cost benefit to pursuing additional LNAPL removal.
- Based on the current understanding of risk conditions, the potential volatilization to indoor air risk for future structures can be effectively mitigated through the Site-wide institutional controls.

3. AOI 36-5 Remedies

3.1. Completed Interim Measures

3.1.1 Source Excavation and Recovery System Operation

In 1989, following the identification of a release from Tank Farm 37, the two leaking tanks were taken out of service. As part of initial abatement measures in February 1990, groundwater and free-product recovery trenches were installed along the east and south sides of the excavation area. In August 1990, a new AST farm was constructed immediately south of this area and the 15 remaining tanks were removed from service. In 1991, all 17 USTs associated with the tank farm were excavated along with approximately 3,300 cubic yards of impacted soils.

The recovery system is no longer active as the wastewater treatment facility was decommissioned in 2011. It is unknown how much LNAPL was recovered over the duration of the systems operation. In addition, LNAPL was removed as part of the LNAPL monitoring and bailing program from 2001 to 2005. The partial and effective removal of product has been completed in this area and is considered a component of the remedy.

3.1.2 Outfall 002 Storm Sewer Bulkhead

As part of a recently completed interim measure (IM), bulkheads were installed at the Outfall 002 storm sewer to eliminate the LNAPL infiltration from AOI 36-5, as well as AOI 36-1/36-2. Additional bulkheading was completed in the adjacent drainage area for Outfall 003 to address LNAPL infiltration from other sources, and also serves to eliminate the GSI pathway in the AOI 36-5 LNAPL Area. Bulkheading activities were completed in this portion of the Site in Spring 2013.

3.2. Additional Remedy Recommendations

The additional remedy recommended to address the compositional and saturation concerns associated with the AOI 36-5 LNAPL Area is institutional controls. This remedy will reduce exposure risks associated with the vapor phase and be protective of future workers in the long term. In addition, the 002 passive recovery trenches will continue to be monitored for LNAPL accumulation.

3.2.1 002 Passive Recovery Trench Monitoring

The installation of the Outfall 002 bulkheads created two closed sections of pipe, referred to as the 002 passive recovery trenches. These trenches are monitored for LNAPL accumulation and oil absorbent booms are used to remove LNAPL, as necessary.

3.2.2 Institutional Controls

The following AOI-specific institutional controls, in addition to the Site-wide controls noted in the Report, will be necessary to limit potential for future exposure:

- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads, as shown on **Figure 5 of the main report**.

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Appendix O

AOI 38-1 Soil Impact
Remedy Recommendation Memo

ARCADIS G&M of Michigan, LLC
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Novi
Michigan 48377
Tel 248 994 2240
Fax 248 994 2241

MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER
Chris Peters, ARCADIS

From:
Micki M. Maki
Victoria Stacey

Date:
August 29, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
AOI 38-1 Investigation Summary and Remedy Recommendation
Buick City Site - Flint, MI

---

1. Overview

This summary and remedy recommendation memo has been prepared on behalf of Revitalizing Auto Communities Environmental Response Trust (RACER) by ARCADIS. This memo summarizes investigation activities completed and recommends remedies for area of interest (AOI) 38-1, which is located at the former Building 38 area in the Northend of the Buick City Site (the Site) located in Flint, Michigan (**Figure O-1**).

2. Soil and Groundwater Data Summary

In 2012 and 2013 sampling events were completed at AOI 38-1 (also known as the 'Northern Parcel') to characterize current Site conditions in preparation of a potential sale. Sampling locations were biased towards areas of historic operations including the locations of three former underground storage tanks (USTs) that were removed in 1988. Documentation of UST investigation and removal activities are presented in the *Current Conditions Report – North of Leith Street*, which is included in **Appendix Y**.

The 2012/2013 investigation results are summarized in the *Northern Parcel Sampling Results Memo* dated December 4, 2013, which is attached. The investigation results and recommended remedies are briefly summarized below. **Figure O-2** shows the monitoring well and soil boring locations at AOI 38-1.

2.1 Groundwater Data

The results of the 2012 groundwater sampling identified two monitoring wells that exceeded non-residential drinking water (NDW) criteria and/or groundwater surface water interface (GSI) criteria for trichloroethene, arsenic, and/or manganese.

2.2 Soil Data

The results of the 2012 – 2013 soil sampling indicated the following:

- Exceedances of groundwater/surface water interface protection criteria (GSIP), non-residential drinking water protection criteria (NDWP), and/or non-residential particulate soil inhalation criteria (NPSIC) for select metals in four shallow soil samples, including the three background sampling locations (RFI-38-12, RFI-BG-08-2, RFI-BG-09-2, and RFI-BG-10/RFI-BG-10-2). The manganese exceedances of NPSIC criteria detected at RFI-38-12 and RFI-BG-10/RFI-BG-10-2 were delineated.
- The former hydraulic lift investigation results detected select volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) above GSIP, groundwater contact protection criteria (GCCP), and/or non-residential direct contact criteria (NDC) at two soil boring locations (SB-38-04 and SB-38-06).

3. Remedy Recommendation Rationale

The remedies recommended to address the groundwater and soil exceedances associated with the AOI 38-1 soils are excavation, engineering controls, and institutional controls, which are discussed in more detail in Section 4. The rationales for the remedy selection are detailed below:

- A groundwater restrictive zone is being proposed for the Site as well as the downgradient properties between the Site and the Flint River. In addition, a groundwater use restriction is planned for Site-wide institutional controls. Therefore, the drinking water pathway is not applicable.

- The only GSI pathway in this portion of the Site is the storm sewers, which discharge to the Flint River. Water concentrations in the monthly samples collected from the Site storm sewer in this area have not exceeded GSI criteria for arsenic, VOCs, or SVOCs since the sampling program began in Fall of 2010.
- The soil sample that exceeded GCCP criteria was collected from 7 to 9 feet below ground surface (bgs), which is 8 to 10 feet above the groundwater table. In addition, none of the groundwater samples (historic or recent) have detected an analyte above groundwater contact criteria.
- The shallow soil exceedances of NPSIC in the area around RFI-BG-10 are located beneath an asphalt surface cover and not located near any proposed construction. Therefore, an engineering control requiring maintaining the surface cover is necessary.
- The soil exceedances of NPSIC in the area around RFI-38-12 are located beneath an asphalt and/or concrete surface cover, but located within and are where construction activities are proposed. Therefore, the recommended remedy is targeted excavation to remove the NPSIC impacts.
- The soil exceedances of NDC criteria around the former hydraulic lifts are at depth. Therefore, institutional controls requiring evaluation prior to excavation are appropriate.

4. Remedy Recommendation

The remedies recommended to address the exceedances at AOI 38-1 are engineering controls, excavation, and institutional controls. These remedies will prevent worker exposure to soil impacts.

4.1 Surface Cover

The remedy to address shallow soil impacts at RFI-BG-10 will be to maintain the surface cover over the impacted area. The surface cover will be inspected and maintained to provide protection from future exposure. The area requiring cover is presented on **Figure O-2**.

The remedy to address the NDC impacts at SB-38-06 will be to maintain the surface cover over the former Factory 38 slab, as shown on **Figure O-2.** The surface cover will be inspected and maintained to provide protection from future exposure.

4.2 Targeted Excavation

The remedy recommended to address the manganese exceedances of NPSIC in the RFI-38-12 area is a

targeted removal of the impacted soils. This portion of the site is slated for redevelopment and due to the location and shallow nature of the impacts (0 to 2 ft bgs); the likelihood of the soils being exposed during redevelopment activities; and the pathway of concern (inhalation), it is prudent to remove and dispose of the impacted soils. The anticipated excavation limits are presented on **Figure O-2** and soils in this area will be removed to 3 feet below ground surface. Sidewall and floor confirmation samples will be collected and analyzed for manganese to confirm the remaining material is below the NPSIC criteria.

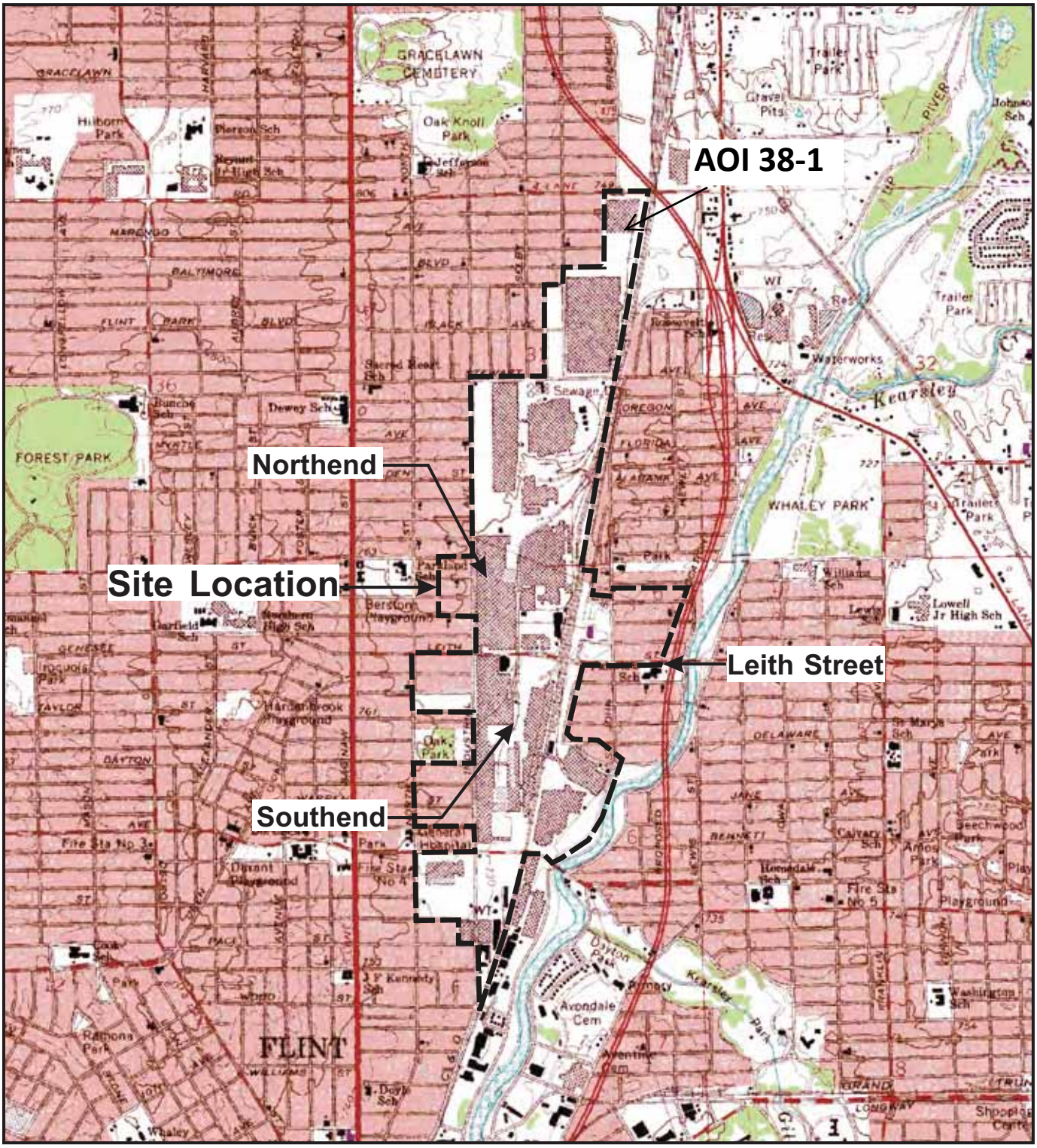
4.3 Institutional Controls

In addition to the Site-wide Institutional Controls discussed in the main report, the following AOI-specific controls will be necessary to limit potential for future exposure:

- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure noted on **Figure 5 of the main report** including storm sewer bulkheads.

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Figures



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quad., Flint North, Mich. (1969, Photorevised 1975).

2000' 0 2000'

Approximate Scale: 1" = 2000'



Area Location

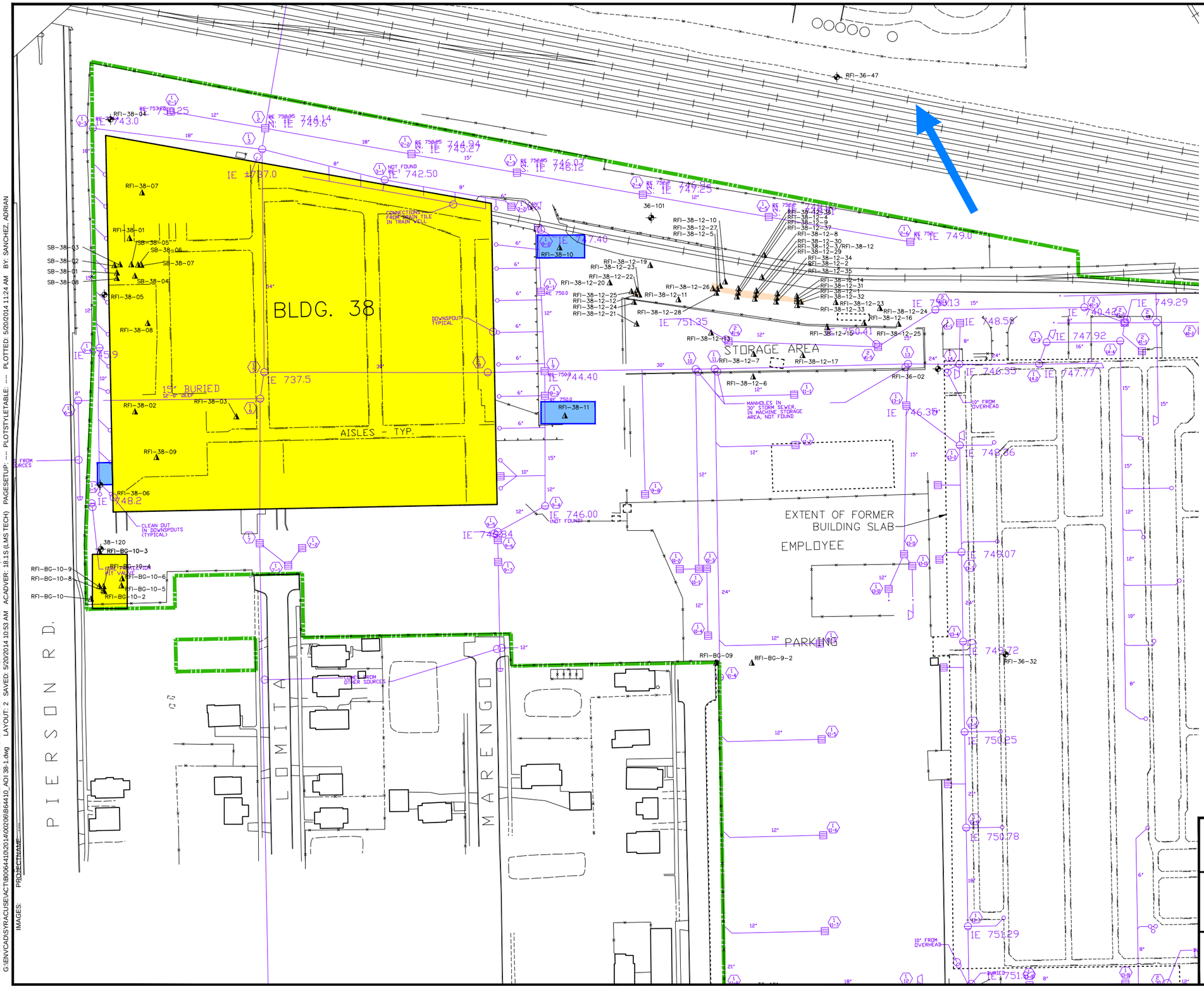
RACER TRUST
BUICK CITY, FLINT, MICHIGAN

SITE LOCATION MAP

ARCADIS

FIGURE
O-1

03/12/2012 SYRACUSE, NY-ENV/CAD-141-DJHOWES
B0064410/2012/01202/CDR/64410N01.CDR



RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 38-1
SOIL IMPACTS

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FIGURE
O-2

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C.KIKER TM: C.KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\0064410\2014\00206\B64410_AOI 38-1.dwg LAYOUT: 2 SAVED: 5/20/2014 10:53 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 5/20/2014 11:24 AM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME

Attachment 1

Northern Parcel Summary Memo

ARCADIS G&M of Michigan, LLC
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MEMO

To:
Chris Black, EPA

Copies:
Grant Trigger, RACER
Dave Favero, RACER
Chris Peters, ARCADIS
Christi Kiker, ARCADIS

From:
Micki Maki

Date:
December 4, 2013

ARCADIS Project No.:
B0064410.2013.01101

Subject:
Northern Parcel Sampling Results Memo
Buick City Site - Flint, MI

This memorandum was prepared by ARCADIS on behalf of Revitalizing Auto Communities Environmental Response Trust (RACER) for the Buick City Site (Site) located in Flint, Michigan to summarize the field activities and laboratory analytical results of the Northern Parcel Sampling Event. The purpose of this sampling event was to provide a snapshot of the current Site conditions at the Northern Parcel, as much of the Site data is 8 to 10 years old. The initial sampling event was completed in October 2012 and delineation sampling was completed March through June 2013 to define the extents of manganese impacts identified at two sampling locations. An additional sampling event was completed in September 2013 to investigate two former hydraulic lifts located at the north end of the former Building 38 slab. This memo also provides a summary of the historic use of the Northern Parcel and the data collected during the RFI and previous investigations.

The approximate location of the Northern parcel is identified on the Site Location Map presented as **Figure 1**.

History of Northern Parcel

The Northern Parcel historically included a single story structure (Building 38) and a parking lot. Building 38 was constructed in 1964 and was slightly over 200,000 square feet. The building was primarily used as a manufacturing warehouse for vehicle engines, vehicle washing and waxing, vehicle emissions testing

and light vehicle repair. The area immediately surrounding the exterior of the building was predominantly paved with asphalt and was used for new vehicle parking. A portion of Building 38 was formerly used as a "climate-controlled soak room' for vehicle emission testing. The building was demolished in 2010, with the slab and surrounding asphalt parking lots remaining in place.

During the RFI one area of interest (AOI) 38-1 was identified related to the Building 38 Area. This area involved the northern portion of Building 38, which housed several process waste sumps containing oil and/or oily sediment, several car wash trenches containing oily sediment, and several hydraulic car lifts. Additionally, an 8,000-gallon fuel oil UST was located within AOI 38-1 near the northwest corner of Building 38. Although previous investigation reports identified an 8,000 gallon UST located at AOI 38-1, no supporting documentation of the installation or closure of the tank can be found. It is likely that this tank was not installed

Historic documents also indicated the presence of a 500-gallon fuel oil UST formerly located along the north side of Building 38, and two former gasoline USTs identified South of Building 38; however, the closure documentation indicated that no releases occurred related to these tanks.

2012 Groundwater Sampling

A monitoring well inventory was completed at the Northern Parcel prior to sampling to determine which wells were remaining following demolition activities. Monitoring wells RFI-36-02, RFI-38-04, RFI-38-06, 36-101 and 38-120 were located and found to be in good condition. Monitoring wells RFI-38-05 and 36-121 could not be located. Monitoring well locations are presented on **Figure 2**.

The monitoring wells located in the Northern Parcel have not been sampled in over 5 years; therefore, re-development was completed prior to sample collection. Approximately one week following well development groundwater samples were collected and submitted for laboratory analysis of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs) and metals.

Groundwater Sampling Results

The groundwater analytical data were compared to the Nonresidential Michigan Department of Environmental Quality (MDEQ) Part 201 Generic Cleanup Criteria and Screening Levels including Non-residential Drinking Water criteria (NDW); Groundwater-Surface Water Interface criteria (GSI);

Groundwater Contact criteria (GCC); Non-residential Groundwater Volatilization to Indoor Air criteria (NGVIA); Groundwater Acute Inhalation (GAI); Water Solubility criteria (WS); and Flammability and Explosivity criteria (FE). Groundwater data were not compared to residential criteria as the parcel is zoned for non-residential use.

Table 1A presents the groundwater data collected during the 2012 sampling event. Analytes which were detected at concentrations that exceed criteria are further discussed below. Please note that RFI-36-02 was also sampled during the 2012 annual groundwater sampling event. The results from that sampling event are also included in Table 1A and discussed below.

- The groundwater samples collected from monitoring wells 36-101, 38-120, and RFI-38-04 do not exceed any criteria.
- The groundwater samples collected from RFI-36-02 and RFI-38-06 exceed the aesthetic based NDW for manganese; however, neither sample exceeds health-based NDW criteria for manganese.
- The groundwater sample collected during the annual groundwater sampling event from RFI-36-02 exceeded GSI and NDW for arsenic.
- The groundwater sample collected from RFI-38-06 also exceeded NDW for trichloroethene.

Table 1B presents the historic groundwater data from the Northern Parcel. In addition the 2012 data are also presented on Table 1B for reference. Analytes which were detected in the historic samples at concentrations that exceed criteria are further discussed below.

- The historical groundwater samples collected from monitoring well 36-121 and RFI-38-05 did not exceed any criteria.
- One of the historical groundwater samples collected from monitoring well 36-101 exceeded GSI criteria for mercury; however, the 2012 sample did not exceed criteria.
- The one historic groundwater sample collected from 38-120 exceeded GSI criteria for silver; however, the 2012 sample did not exceed criteria.
- One of the historic groundwater samples collected from monitoring well RFI-36-02 exceed GSI and NDW for arsenic (total and dissolved) and nickel (total); however, the 2012 sample did not exceed criteria for nickel (total).
- One of the historic groundwater samples collected from monitoring well RFI-38-04 exceeded NDW criteria for lead (dissolved); however, the 2012 sample did not exceed criteria for lead (total).

- Select historic groundwater samples collected from monitoring well RFI-38-06 exceed GSI and NDW criteria for beryllium (total) and thallium (dissolved and total) and GSI was exceeded for silver. However, the 2012 sample did not exceed criteria for beryllium (total), thallium (total), or silver (total).

2012-2013 Soil Sampling

In October 2012 the initial sampling event was completed. Soil samples were collected from six locations (RFI-38-07 through RFI-38-12) within the Northern Parcel to evaluate the subsurface for possible impacts from historic Site use. The sampling locations were placed in AOI 38-1 (RFI-38-07 through RFI-38-09); at the locations of the former USTs (RFI-38-10 and RFI-10-11); and at the former storage area (RFI-38-12). The soil samples were planned to be collected from 0 to 2 ft bgs and 5 to 7 ft bgs at each boring location; however, due to shallow subsurface refusal, only borings RFI-38-07 and RFI-38-10 were completed to a depth of 7 ft bgs. At the remaining boring locations a 0 to 2 ft bgs sample was collected and a second deeper sample was collected where possible. Soil samples were submitted for laboratory analysis of VOCs, SVOCs, PCBs, and metals.

In addition, soil samples were collected from the three background sampling locations (RFI-BG-08-2, RFI-BG-09-2, and RFI-BG-10-2) along the western property boundary of the Site. These borings were co-located with historic background sampling locations RFI-BG-08, RFI-BG-09, and RFI-BG-10. Soil samples were collected from 0 to 2 feet bgs at these locations and submitted to the laboratory for analysis of VOCs, SVOCs, PCBs, and metals.

In March – June 2013 additional sampling was completed to delineate two exceedances of Non-residential Particulate Soil Inhalation Criteria (NPSIC) identified during the initial sampling event. Nineteen soil borings (RFI-38-12-1, RFI-38-12-2, RFI-38-12-4 through RFI-38-12-17, and RFI-38-12-19 through RFI-38-12-21) were completed to delineate the exceedance identified at RFI-38-12. At RFI-BG-10 five soil borings (RFI-BG-10-3 through RFI-BG-10-7) were completed to delineate NPSIC exceedance. In addition, a boring was co-located with the RFI-BG-10-2 soil boring to vertically delineate the exceedance.

Soil samples were collected from 0 to 2 ft bgs, 3 to 5 ft bgs, and/or 5 to 7 ft bgs and were submitted for laboratory analysis of manganese. One exception is RFI-38-12-19 which only had one sample collected from 0 to 2 ft bgs due to refusal at 2.2 ft bgs. The soil samples collected from the 3 to 5, and 5 to 7 ft bgs interval were placed on hold pending exceedances of NPSIC criteria detected in the shallower intervals. Please note that soil borings were not completed at proposed locations RFI-38-12-3 and RFI-38-12-18.

In September 2013 during a site walk, surface staining was observed at a former hydraulic lift area at the northern portion of the Building 38 slab. Eight soil borings (SB-38-01 through SB-38-08) were completed to investigate two former hydraulic lifts in the area. One soil sample was collected from soil borings SB-38-01 through SB-38-06, with the sample intervals being biased towards staining and/or elevated PID readings. No samples were collected from boring SB-38-07 and SB-38-08 as there was no evidence of impact at these boring locations. The soil samples were submitted to the laboratory for analysis of VOCs, SVOCs, PCBs, total petroleum hydrocarbons (TPH) - Diesel Range Organics (DRO), and TPH- Oil Range Organics (ORO).

Soil Sampling Results

The soil analytical data were compared to the Nonresidential MDEQ Part 201 Generic Cleanup Criteria and Screening Levels including Non-residential Drinking Water Protection criteria (NDWP); Groundwater-Surface Water Interface Protection criteria (GSIP); Nonresidential Direct Contact (NDC); Groundwater Contact Protection criteria (GCCP); Soil Saturation Concentration screening levels (CSAT); Non-residential Particulate Soil Inhalation Criteria (NPSIC); Non-residential Soil Volatilization to Indoor Air Inhalation criteria (NSVIA); Non-residential Infinite Source Volatile Soil inhalation Criteria (NVSICI); Non-residential Finite Volatile Soil inhalation Criteria for 5 meter Source Thickness (NVSIC5); Nonresidential Finite Source Volatile Soil inhalation Criteria for 2 meter Source Thickness (NVSIC2); and State Default Background Levels (SDBL). Soil data were not compared to residential criteria as the parcel is zoned for non-residential use.

Table 2A presents the soil data collected during the sampling events completed from the October 2012 through June 2013. **Table 2B** presents the soil data collected during the former hydraulic lift investigation event. Analytes which were detected at concentrations that exceed state default background levels and one of the criteria listed above are further discussed below.

October 2012 Sampling Results

- The soil samples collected from borings RFI-38-07, RFI-38-08, RFI-38-09, RFI-38-10, and RFI-38-11 do not exceed criteria.
- The soil sample collected from RFI-38-12 (0.7 to 1.4 ft bgs) exceeds GSIP criteria for cobalt, copper, manganese, silver, and zinc. In addition the sample exceeds NDWP for cobalt and manganese and NPSIC criteria for manganese.

- The soil sample collected from RFI-BG-08-2 (0.6 to 2 ft bgs) exceeds GSIP and NDWP criteria for cobalt and manganese.
- The soil sample collected from RFI-BG-09-2 (0.5 to 1 ft bgs) exceeds GSIP and NDWP criteria for cobalt and manganese.
- The soil sample collected from RFI-BG-10-2 (0.6 to 1 ft bgs) exceeds GSIP and NDWP criteria for cobalt.

March – June 2013 Delineation Sampling Results

- RFI-BG-10/RFI-BG-10-2 Area
  - The delineation samples collected from RFI-BG-10-3 (0 to 2 ft bgs), RFI-BG-10-4 (3 to 5 ft bgs), and RFI-BG-10-6 (0 to 2 ft bgs) do not exceed criteria.
  - The delineation soil samples collected from RFI-BG-10-2 exceeded NPSIC, GSIP and NDWP criteria for manganese in the shallow sample (0 to 2 ft bgs) and GSIP and NDWP criteria in the deeps sample (3 to 5 ft bgs).
  - The delineation soil samples collected from RFI-BG-10-3 (3 to 5 ft bgs), RFI-BG-10-4 (0 to 2 ft bgs), RFI-BG-10-5 (0 to 2 and 3 to 5 ft bgs), and RFI-BG-10-6 (3 to 5 ft bgs) exceeded GSIP and NDWP criteria for manganese.

The manganese exceedances of NPSIC criteria are shown on **Figure 8.**

- RFI-38-12 Area
  - The delineation samples collected from RFI-38-12-1 (3 to 5 ft bgs), RFI-38-12-2 (3 to 5 ft bgs), RFI-38-12-5 (3 to 5 ft bgs), RFI-38-12-6 (0 to 2 and 3 to 5 ft bgs), RFI-38-12-7 (0 to 2 and 3 to 5 ft bgs), RFI-38-12-8 (0 to 2 and 3 to 5 ft bgs), RFI-38-12-9 (3 to 5 ft bgs), RFI-38-12-11 (1 to 2 ft bgs), RFI-38-12-13 (0 to 2 ft bgs) RFI-38-12-19 (0 to 2 ft bgs), and RFI-38-12-21 (0 to 2 ft bgs) do not exceed criteria.
  - The delineation soil samples collected from RFI-38-12-1 (0 to 2 ft bgs), RFI-38-12-2 (0 to 2 ft bgs), RFI-38-12-4 (0 to 2 ft bgs), RFI-38-12-5 (0 to 2 ft bgs), and RFI-38-12-12 (0 to 2) exceeded NPSIC, GSIP and NDWP criteria for manganese.
  - The delineation samples collected from RFI-38-12-4 (3 to 5 ft bgs), RFI-38-12-9 (0 to 2 ft bgs), RFI-38-12-10 (0 to 2 ft bgs), RFI-38-12-14 (0 to 2 ft bgs), RFI-38-12-15 (0 to 2 ft bgs), RFI-38-12-16 (1 to 2 ft bgs), RFI-38-12-17 (1 to 2 ft bgs), and RFI-38-12-20 (0 to 2 ft bgs) exceeded GSIP and NDWP criteria for manganese.

The vertical and horizontal extents of the manganese exceedances of NPSIC criteria at RFI-38-12 have been delineated as shown on **Figure 4**.

September 2013 Former Hydraulic Lift Investigation Sampling Results

- The investigation samples collected from SB-38-01 (1 to 2 ft bgs), SB-38-02 (2 to 3 ft bgs), SB-38-03 (6 to 7 ft bgs), and SB-38-05 (3 to 3.5 ft bgs) do not exceed criteria.
- The investigation soil samples collected from SB-38-04 (2 to 3 ft bgs) and SB-38-06 (7 to 9 ft bgs) exceeded GSIP criteria for fluoranthene and phenanthrene.
- The investigation soil sample collected from SB-38-06 (7 to 9 ft bgs) also exceeded GSIP criteria for 2-methylnaphthalene, acenaphthalene, fluorene, and naphthalene.
- The investigation soil samples collected from SB-38-06 (7 to 9 ft bgs) also exceeded NDC criteria for benzo(a)anthracene, benzo(a)pyrene, benzo(a)fluoranthene, and dibenzo(a,h)anthracene.
- The investigation soil samples collected from SB-38-06 (7 to 9 ft bgs) also exceeded GCCP criteria for anthracene.
- It should be noted that while the soil sample collected from SB-38-06 (7 to 9 ft bgs) also exceeded the Vapor Intrusion Soil Screening Level criteria in the MDEQ Guidance Document for the Vapor Intrusion Pathway (May 2013), the criteria in the Guidance document are not applicable for the following reasons:
    - The guidance document in its entirety is located at: http://www.michigan.gov/documents/deq/deq-rrd-VIGuidanceDoc-May2013_422550_7.pdf The specific section that address the applicability of the document is located in Appendix C – Checklists for Evaluating Compliance with Part 201, specifically C.1 Checklist for Determining if Generic Volatilization to Indoor Air Inhalation Criteria Apply. Per the soil discussion at the bottom of page 1 and the following criteria, the MDEQ Part 201 Non-residential soil volatilization to indoor air inhalation criteria applies to the Site data.
        - Sample location SB-38-06 is located beneath the former Building 38 slab, which is constructed of poured concrete.
        - There are no active sumps present in this area.
    - As the soil data does not exceed part 201 criteria Non-residential Soil Volatilization to Indoor Air Inhalation Criteria, Vapor intrusion is not a concern.
    - Concrete cracking becoming a pathway is a valid concern. Appendix B – Supplemental Guidance Information, specifically B.1 - Alternate Approach for Demonstrating

Compliance with the Volatilization to Indoor Air Pathway (Big Building Model); Section 1.0 on page 4 addresses the floor thickness assumed under Part 201 and how cracks are accounted in the selection criteria.

In addition the soil sample collected from SB-38-06 (7 to 9 ft bgs) does not exceed NSVIA criteria.

The soil boring locations are as shown on **Figure 6**.

Historic Sampling Results

Table 2C presents the historic soil data collected from the Northern Parcel. In addition the 2012-2013 data are also included on Table 2C for reference. Analytes which were detected in the historic samples at concentrations that exceed criteria are further discussed below.

- The soil samples collected from RFI-36-02, RFI-38-02, RFI-38-03, RFI-38-04, and RFI-38-06 do not exceed criteria.
- The shallow soil sample collected from RFI-38-01 (0.5 to 2.5 ft bgs) exceeds GSIP and NDWP criteria for arsenic and manganese. The samples collected from RFI-38-01 at depth (8.5 to 10.5 ft bgs and 18.5 to 20.5 ft bgs) did not exceed criteria.
- The shallow soil sample collected from RFI-38-05 (0.6 to 2.6 ft bgs) exceeds GSIP and NDWP criteria for manganese. The samples collected from RFI-38-05 at depth (8.6 to 10.6 ft bgs and 14.6 to 16.6 ft bgs) did not exceed criteria.
- The soil sample collected from RFI-BG-08 (0 to 2 ft bgs) exceeds GSIP and NDWP criteria for arsenic and manganese.
- The soil sample collected from RFI-BG-09 (0 to 2 ft bgs) exceeds GSIP and NDWP criteria for arsenic.
- The soil sample collected from RFI-BG-10 (0 to 2 ft bgs) exceeds GSIP, NDWP and NPSIC criteria for manganese and GSIP criteria for zinc.

Conclusions and Remedy Recommendations

Conclusion

The historic groundwater data detected various metals at concentrations exceeding NDW and/or GSI criteria at several wells. The results of the 2012 groundwater sampling identified two monitoring wells (RFI-36-02 and RFI-38-06) which exceeded NDW criteria for arsenic, manganese, and/or

trichloroethene and RFI 36-02 also exceeded GSI criteria for arsenic. The GSI pathway is only applicable through the Site storm sewers which discharge to the Flint River. The samples collected from the Site storm sewer in this area as part of a monthly sampling event have not exceeded GSI criteria for arsenic since the sampling program began in Fall of 2010.

The historic soil data detected select metals at concentrations exceeding GSIP, NDWP and /or NPSIC criteria at five soil boring locations, including the three background sampling locations. The results of the 2012 -2013 soil sampling indicate the following:

- Exceedances of GSIP, NDWP, and/or NPSIC criteria for select metals in four shallow soil samples, including the three background sampling locations (RFI-38-12, RFI-BG-08-2, RFI-BG-09-2, and RFI-BG-10/RFI-BG-10-2). The manganese exceedances of NPSIC criteria detected at RFI-38-12 and RFI-BG-10/RFI-BG-10-2 were delineated during subsequent sampling events
- The former hydraulic lift investigation results detected select VOCs and SVOCs above GSIP, GCCP, and/or NDC criteria at two soil boring locations (SB-38-04 and SB-38-06).

GSIP and GCCP criteria are not applicable pathways. As discussed above, GSI criteria have not been exceed in samples collected from the Site storm sewer which is the only GSI pathway in this part of the Site. The sample that exceeds GCCP criteria was collected from 7 to 9 feet bgs, which is 8 to 10 feet above the groundwater table. In addition, none of the groundwater samples (historic or recent) have detected an analyte above GCC criteria.

The samples that exceed NDC and/or NPSIC criteria were collected from soils located beneath concrete or asphalt; therefore, the direct contact and soil particulate inhalation pathways are not currently applicable pathways.

In addition, the historic soil and groundwater data collected from the Northern Parcel were evaluated in the Human Health Risk Assessments (HHRAs) completed as part of RCRA Facility Investigation (RFI) Phase II activities. The HHRAs determined that the Northern Parcel did not pose a potential threat to human health and the environment and that no further action was required. The HHRA, dated 2006, was completed with the data available at the time. The additional northern parcel sampling conducted since then was not considered in that HHRA. The remedy recommendations in this Memo will address these potential human health exposures brought to light from recent sampling.

Remedy Recommendations

1) The remedy recommended to address the drinking water pathway is a groundwater use restriction. The restriction planned for the Northern Parcel will prohibit the use of groundwater for any purpose beyond sampling and other related investigatory testing. An example of the language to be included in the *Prohibited Activities to Eliminate Unacceptable Exposure to hazardous Substances* section of the Restrictive Covenant is as follows:

The Owner shall prohibit activities on the Property that may result in exposures to hazardous substances at the Property. These prohibited activities include: The construction and use of wells or other devices on the Property, as described in Exhibit 1, to extract groundwater for consumption, irrigation, or any other purpose, except as provided below:

(a) Wells and other devices constructed as part of a corrective action activity for the purpose of evaluating groundwater quality or to remediate subsurface contamination associated with a release of hazardous substances into the environment are permitted provided the construction of the wells or devices complies with all applicable local, state, and federal laws and regulations and does not cause or result in a new release, exacerbation of existing contamination, or any other violation of local, state, or federal laws or regulations.

(b) Short-term dewatering for construction purposes is permitted provided the dewatering, including management and disposal of the groundwater, is conducted in accordance with all applicable local, state, and federal laws and regulations and does not cause or result in a new release, exacerbation of existing contamination, or any other violation of local, state, and federal environmental laws and regulations.

2) The potential remedy recommendation options to address the NDC exceedance at SB-38-06 are as follows:

Option 1 – Deed Restriction

Implementation of a deed restriction for a substantial portion of the Northern Parcel that will require the evaluation of Site data prior to conducting excavation activities and implementation of a health and safety plan to be protective of workers. An example of the language to be included in the Prohibited Activities to Eliminate Unacceptable Exposure *to hazardous Substances* section of the Restrictive Covenant is as follows:

The Owner shall consider that any excavation or other intrusive activity within the area of the Property identified in the area SB-38-06 and illustrated and described in Exhibit 2, may require such work to be performed in compliance with 40 CFR 1910.120, and shall prohibit any excavation or other intrusive activity within these areas that could result in the exposure to workers not wearing required personal protective equipment (PPE).

Option 2 – Reduce deed restricted area

This option would include completing additional soil borings to refine the extent of the NDC impact vertically and horizontally. This option would minimize the area requiring restriction or excavation.

Option 3 – Limited removal of Impact Soils

This option would include that RACER be responsible for incremental costs associated from the transportation and disposal of impacted soils generated during structure foundation installation. All other costs, including but not limited to excavation and removal of soils, would be borne by the potential purchaser

3) The remedies recommended to address the NPSIC exceedance at RFI-BG-10 is an excavation restriction (as described above) and a soil exposure barrier restriction. The soil barrier restriction planned for the Northern Parcel will require that in the event that existing cover (concrete or pavement) are removed at the Property, as defined in Exhibit 1, the barrier must either be replaced or soil above non-residential cleanup standards must be excavated and disposed of. An example of the language to be included in the *Prohibited Activities to Eliminate Unacceptable Exposure to hazardous Substances* section of the Restrictive Covenant is as follows:

In addition, the Owner shall maintain the surface cover of all areas of the Property identified as Area RFI-BG-10 as illustrated and described in Exhibit 2, such that it remains consistent with current cover materials. Any excavation or other intrusive activity that could affect the integrity of the concrete, asphalt or soil is prohibited, except during short-term construction or repair projects or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the concrete, asphalt, or soil that could affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original barrier within 45 days of completion of the work. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the NREPA and 40 C.F.R §761.61(a)(8)(B)(ii).

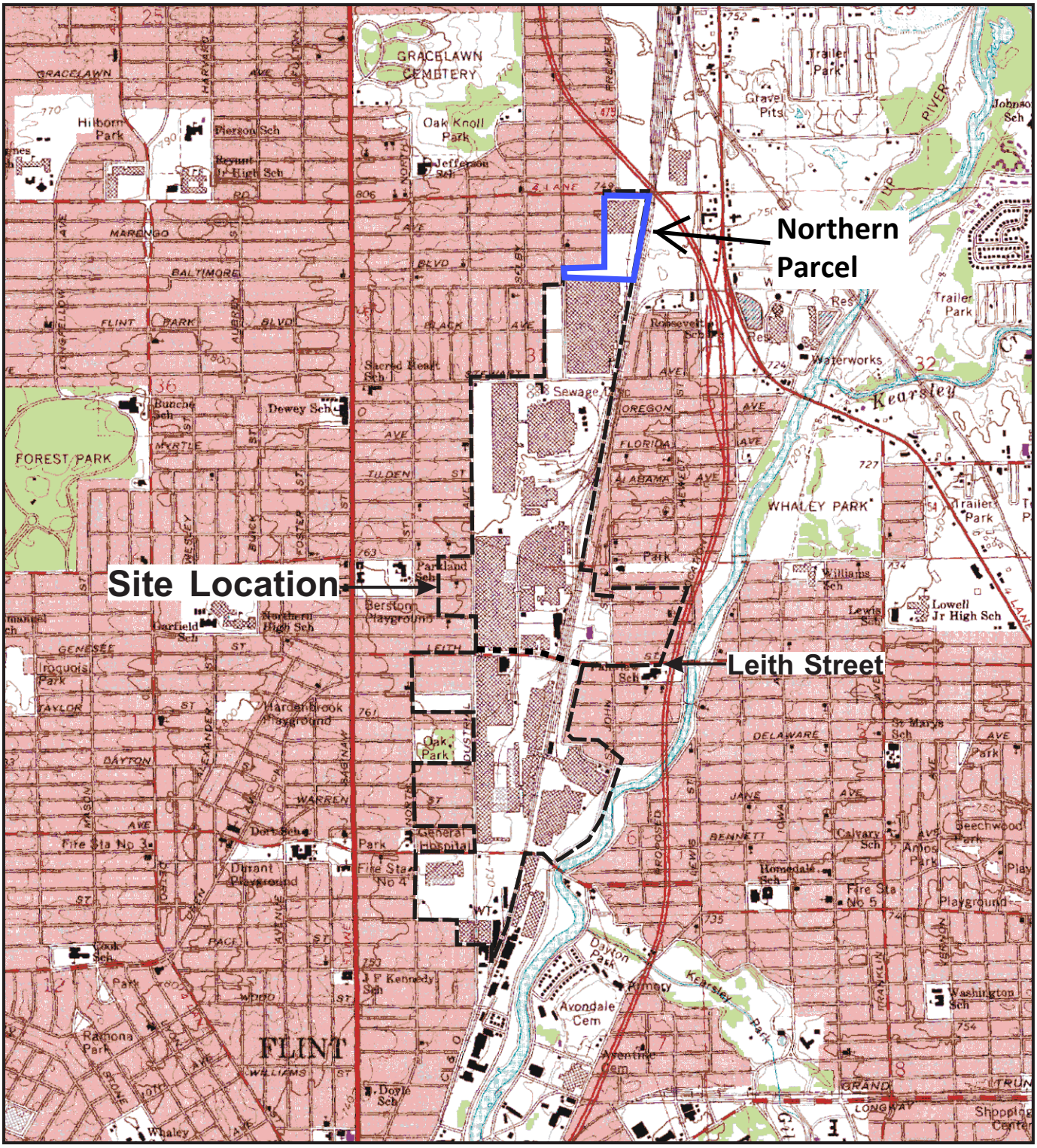
4) The remedy recommended to address the manganese exceedances of NPSIC in the RFI-38-12 area is a targeted removal of the impacted soils. This portion of the site is slated for redevelopment and due to the location and shallow nature of the impacts (0 to 2 ft bgs); the likelihood of the soils being exposed during redevelopment activities; and the pathway of concern

(inhalation), it is prudent to remove and dispose of the impacted soils. The anticipated excavation limits are present in **Figure 4** and soils in this area will be removed to 3 feet below ground surface. Sidewall and floor confirmation samples will be collected and analyzed for manganese to confirm the remaining material is below the cleanup criteria.

5) In addition the Site use will be restricted to Non-residential.

ARCADIS

Figures



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quad., Flint North, Mich. (1969, Photorevised 1975).

2000' 0 2000'

Approximate Scale: 1" = 2000'



Area Location

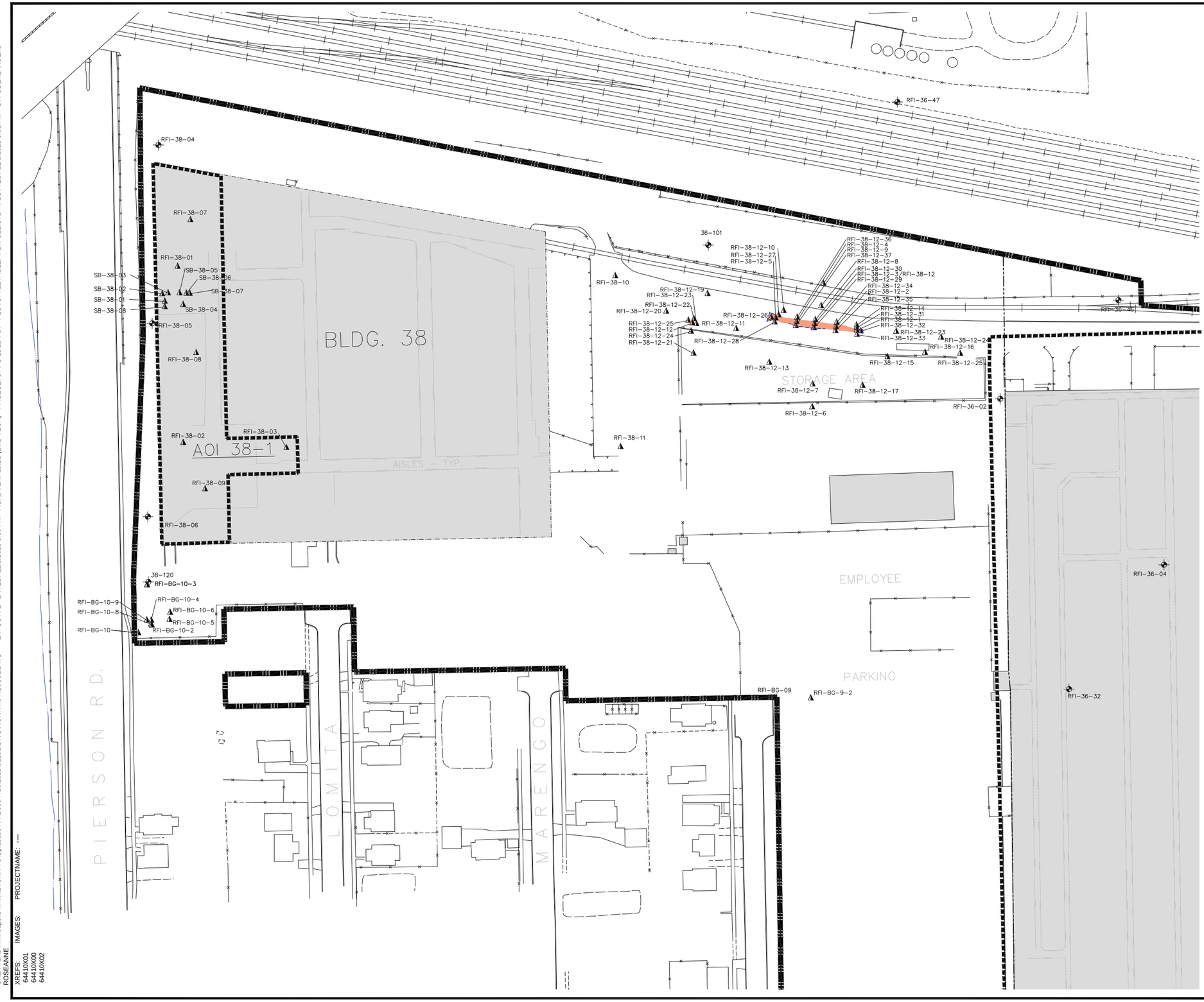
RACER TRUST
BUICK CITY - FLINT, MICHIGAN

SITE LOCATION

ARCADIS

FIGURE
1

05/07/2012 SYRACUSE, NY-ENV/CAD-DJHOWES
B0064410/4012/00104/CDR/64410N02.CDR



LEGEND:

- MONITORING WELL
- APPROXIMATE SOIL BORING LOCATION
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- RACER PROPERTY BOUNDARY
- APPROXIMATE AOI BOUNDARY
- DEMOLISHED BUILDING
- NORTHERN PARCEL
- PROPOSED REMOVAL AREA
- EXTENT OF IMPACT NOT YET DELINEATED

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. ALL LOCATIONS ARE APPROXIMATE.

0 60' 120'
GRAPHIC SCALE

RACER TRUST
BUICK CITY, FLINT, MICHIGAN

NORTHERN PARCEL SITE PLAN

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FIGURE
2

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB: G. STOWELL L. FORAKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\Minneapolis-MN\RETURN-TO\Syracuse-NY\B0064410\2013\01101\DWG\NORTH\64410G02.DWG LAYOUT: 2 SAVED: 12/3/2013 3:01 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: C:\LD2B.PDF PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 12/3/2013 3:01 PM BY: OBERLANDER, ROSEANNE
XREFS:
64410X01
64410X00
64410X02
IMAGES:
PROJECTNAME: ----

36-101						
Depth()	(No Depth)	(No Depth)	(No Depth)	(No Depth)	(No Depth)	(No Depth)
Date	9/28/2001	6/13/2002	11/2/2006	4/23/2007	6/27/2007	10/18/2012
Inorganic						
Manganese (mg/L)	**0.44 J**	**0.33 J**	NA	NA	NA	NA
Inorganic-Dissolved						
Manganese (Dissolved) (mg/L)	**0.45 J**	NA	NA	NA	NA	NA

RFI-36-02							
Depth()	(No Depth)	(No Depth)	(No Depth)	(No Depth)	(No Depth)	(No Depth)	(No Depth)
Date	10/4/2001	6/13/2002	3/25/2003	10/13/2004	11/2/2006	11/14/2007	11/7/2012
Inorganic							
Arsenic (mg/L)	**0.085 J**	**0.091**	**0.019**	**0.013**	NA	NA	**0.022 [0.023]**
Manganese (mg/L)	**1.2 J**	**1.4 J**	**0.64**	NA	NA	NA	NA
Nickel (mg/L)	**0.13**	0.092	0.066	0.020	NA	NA	NA
Inorganic-Dissolved							
Arsenic (Dissolved) (mg/L)	**0.057**	NA	NA	NA	NA	NA	NA
Manganese (Dissolved) (mg/L)	**0.78**	NA	NA	NA	NA	NA	NA

36-101

RFI-38-10

RFI-38-12-9

RFI-38-12-19

RFI-38-12-8

RFI-38-12-20

RFI-38-12-10

RFI-38-12-27

RFI-38-12-5

RFI-38-12-36

RFI-38-12-30

RFI-38-12-26

RFI-38-12-28

RFI-38-12-4

RFI-38-12-3/RFI-38-12

RFI-38-12-34

RFI-38-12-25

RFI-38-12-22

RFI-38-12-37

RFI-38-12-14

RFI-38-12-12

RFI-38-12-23

RFI-38-12-29

RFI-38-12-8

RFI-38-12-2

RFI-38-12-31

RFI-38-12-1

RFI-38-12-11

RFI-38-12-35

RFI-38-12-32

RFI-38-12-24

RFI-38-12-33

RFI-38-12-23

RFI-38-12-24

RFI-38-12-21

RFI-38-12-16

RFI-38-12-25

RFI-38-12-15

RFI-38-12-13

STORAGE AREA

RFI-38-12-7

RFI-38-12-17

RFI-36-02

RFI-38-12-6

RFI-38-11

LEGEND:

- MONITORING WELL
- APPROXIMATE SOIL BORING LOCATION
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- RACER PROPERTY BOUNDARY
- PROPERTY OWNED BY OTHERS
- APPROXIMATE AOI BOUNDARY
- DEMOLISHED BUILDING
- NORTHERN PARCEL
- PROPOSED REMOVAL AREA
- EXTENT OF IMPACT NOT YET DELINEATED
- EXCEEDS NONRESIDENTIAL DRINKING WATER PROTECTION CRITERIA
- EXCEEDS GROUNDWATER SURFACE WATER INTERFACE CRITERIA
- EXCEEDS NONRESIDENTIAL PARTICULATE SOIL INHALATION CRITERIA
- EXCEEDS NONRESIDENTIAL DIRECT CONTACT CRITERIA

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. ALL LOCATIONS ARE APPROXIMATE.

0 20' 40'
GRAPHIC SCALE

RACER TRUST
BUICK CITY, FLINT, MICHIGAN

RFI-38-12 AREA GROUNDWATER

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FIGURE
3

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB: G. STOWELL L. FORAKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\Minneapolis-MN\RETURN-TO\Syracuse-NY\B0064410\2013\01101\DWG\NORTH\64410G03.dwg LAYOUT: 3 SAVED: 12/3/2013 3:02 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: C-LD2B-PDF PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 12/3/2013 3:02 PM BY: OBERLANDER, ROSEANNE
XREFS: 64410X01 64410X00 64410X02 IMAGES: PROJECTNAME: ----

RFI-38-12-26		
Depth(ft)	(0.5 – 2)	
Date	10/30/2013	
Inorganic		
Manganese (mg/kg)	**2070**	
Manganese (mg/kg)	**2070**	

RFI-38-12-5		
Depth(ft)	(0 – 2)	(3 – 5)
Date	3/21/2013	3/21/2013
Inorganic		
Manganese (mg/kg)	**4440**	**210**
Manganese (mg/kg)	**4440**	210

RFI-38-12-27	
Depth(ft)	(0.5 – 2)
Date	10/30/2013
Inorganic	
Manganese (mg/kg)	**1230**

RFI-38-12-10	
Depth(ft)	(0 – 2)
Date	5/9/2013
Inorganic	
Manganese (mg/kg)	**1090**

RFI-38-12-4		
Depth(ft)	(0 – 2)	(3 – 5)
Date	3/21/2013	3/21/2013
Inorganic		
Manganese (mg/kg)	**3110**	**1180**
Manganese (mg/kg)	**3110**	1180

RFI-38-12-9		
Depth(ft)	(0 – 2)	(3 – 5)
Date	3/21/2013	3/21/2013
Inorganic		
Manganese (mg/kg)	**461**	**34.9**

RFI-38-12-8		
Depth(ft)	(0 – 2)	(3 – 5)
Date	3/21/2013	3/21/2013
Inorganic		
Manganese (mg/kg)	**141**	**94.2**

RFI-38-12-30	
Depth(ft)	(0.5 – 2)
Date	10/30/2013
Inorganic	
Manganese (mg/kg)	**881**

RFI-38-12-19	
Depth(ft)	(0 – 2)
Date	6/5/2013
Inorganic	
Manganese (mg/kg)	**431**

RFI-38-12			
Depth(ft)	(0 – 2)	(0.7 – 1.4)	(3 – 5)
Date	3/21/2013	10/12/2012	3/21/2013
Inorganic			
Cobalt (mg/kg)	NA	**70.1**	NA
Copper (mg/kg)	NA	**127**	NA
Manganese (mg/kg)	**491**	**6750**	**338**
Manganese (mg/kg)	491	**6750**	338
Silver (mg/kg)	NA	**1.08**	NA
Zinc (mg/kg)	NA	**518**	NA

RFI-38-12-20	
Depth(ft)	(0 – 2)
Date	5/28/2013
Inorganic	
Manganese (mg/kg)	**604**

RFI-38-12-36	
Depth(ft)	(0.5 – 2)
Date	10/30/2013
Inorganic	
Manganese (mg/kg)	**1120**

RFI-38-12-34	
Depth(ft)	(1 – 2)
Date	10/30/2013
Inorganic	
Manganese (mg/kg)	**846**

RFI-38-12-22	
Depth(ft)	(1 – 2)
Date	10/30/2013
Inorganic	
Manganese (mg/kg)	**594**

RFI-38-12-2		
Depth(ft)	(0 – 2)	(3 – 5)
Date	3/21/2013	3/21/2013
Inorganic		
Manganese (mg/kg)	**2200**	**115**
Manganese (mg/kg)	**2200**	115

RFI-38-12-23	
Depth(ft)	(1.2 – 2)
Date	10/30/2013
Inorganic	
Manganese (mg/kg)	**699**

RFI-38-12-14	
Depth(ft)	(0 – 2)
Date	5/9/2013
Inorganic	
Manganese (mg/kg)	**466**

RFI-38-12-25	
Depth(ft)	(0.8 – 2)
Date	10/30/2013
Inorganic	
Manganese (mg/kg)	**688**

RFI-38-12-31	
Depth(ft)	(1 – 2)
Date	10/30/2013
Inorganic	
Manganese (mg/kg)	**515**

RFI-38-12-12	
Depth(ft)	(0 – 2)
Date	5/9/2013
Inorganic	
Manganese (mg/kg)	**1980**
Manganese (mg/kg)	**1980**

RFI-38-12-24	
Depth(ft)	(1 – 2)
Date	10/30/2013
Inorganic	
Manganese (mg/kg)	**1140**

RFI-38-12-11	
Depth(ft)	(1 – 2)
Date	5/9/2013
Inorganic	
Manganese (mg/kg)	**210**

RFI-38-12-28	
Depth(ft)	(0.5 – 2)
Date	10/30/2013
Inorganic	
Manganese (mg/kg)	**1410**

RFI-38-12-37	
Depth(ft)	(0.5 – 2)
Date	10/30/2013
Inorganic	
Manganese (mg/kg)	**2040**
Manganese (mg/kg)	**2040**

RFI-38-12-29	
Depth(ft)	(0.5 – 2)
Date	10/30/2013
Inorganic	
Manganese (mg/kg)	**1700**
Manganese (mg/kg)	**1700**

RFI-38-12-35	
Depth(ft)	(0.5 – 2)
Date	10/30/2013
Inorganic	
Manganese (mg/kg)	**897**

RFI-38-12-1		
Depth(ft)	(0 – 2)	(3 – 5)
Date	3/21/2013	3/21/2013
Inorganic		
Manganese (mg/kg)	**1790**	**63.7**
Manganese (mg/kg)	**1790**	63.7

RFI-38-12-32	
Depth(ft)	(0.5 – 2)
Date	10/30/2013
Inorganic	
Manganese (mg/kg)	**2450**
Manganese (mg/kg)	**2450**

RFI-38-12-21	
Depth(ft)	(0 – 2)
Date	6/5/2013
Inorganic	
Manganese (mg/kg)	**386**

RFI-38-12-33	
Depth(ft)	(0.5 – 2)
Date	10/30/2013
Inorganic	
Manganese (mg/kg)	**1150**

RFI-38-12-15	
Depth(ft)	(0 – 2)
Date	5/9/2013
Inorganic	
Manganese (mg/kg)	**355**

RFI-38-12-13	
Depth(ft)	(0 – 2)
Date	6/5/2013
Inorganic	
Manganese (mg/kg)	**170**

RFI-38-12-7		
Depth(ft)	(0 – 2)	(3 – 5)
Date	3/21/2013	3/21/2013
Inorganic		
Manganese (mg/kg)	**177**	**228**

RFI-38-12-17	
Depth(ft)	(1 – 2)
Date	5/9/2013
Inorganic	
Manganese (mg/kg)	**464**

STORAGE AREA

LEGEND:

- MONITORING WELL
- APPROXIMATE SOIL BORING LOCATION
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- RACER PROPERTY BOUNDARY
- APPROXIMATE AOI BOUNDARY
- DEMOLISHED BUILDING
- NORTHERN PARCEL
- PROPOSED REMOVAL AREA
- EXTENT OF IMPACT NOT YET DELINEATED
- EXCEEDS NONRESIDENTIAL DRINKING WATER PROTECTION CRITERIA
- EXCEEDS GROUNDWATER SURFACE WATER INTERFACE CRITERIA
- EXCEEDS NONRESIDENTIAL PARTICULATE SOIL INHALATION CRITERIA
- EXCEEDS NONRESIDENTIAL DIRECT CONTACT CRITERIA

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. ALL LOCATIONS ARE APPROXIMATE.

0 10' 20'
GRAPHIC SCALE

RACER TRUST
BUICK CITY, FLINT, MICHIGAN

RFI-38-12 AREA SOIL DATA

ARCADIS

FIGURE 4

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB: G. STOWELL L. FORAKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\Minneapolis-MN\RETURN-TO\Syracuse-NY\B0064410\2013\01101\DWG\NORTH\64410G04.dwg LAYOUT: 4 SAVED: 12/3/2013 11:54 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: C-LD2B-PDF PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 12/3/2013 11:54 AM BY: OBERLANDER, ROSEANNE
XREFS: IMAGES: PROJECTNAME: ---
64410X01
64410X00
64410X02

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB: G. STOWELL L. FORAKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\Minneapolis-MN\RETURN-TO\Syracuse-NY\B0064410\2013\10\1\01\DWG\NORTH\64410G05.dwg LAYOUT: 5 SAVED: 12/3/2013 12:56 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: C:\LD2B-PDF PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 12/3/2013 12:56 PM BY: OBERLANDER, ROSEANNE
XREFS: IMAGES: PROJECTNAME: ----
64410X01
64410X00
64410X02

SB-38-03

SB-38-02

SB-38-05

SB-38-06

SB-38-01

SB-38-04

RFI-38-05

RFI-38-08

RFI-38-05	
Depth()	(No Depth)
Date	9/28/2001
Inorganic	
Manganese (mg/L)	**0.55 J**
Inorganic-Dissolved	
Manganese (Dissolved) (mg/L)	**0.52 J**

LEGEND:

- MONITORING WELL
- APPROXIMATE SOIL BORING LOCATION
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- APPROXIMATE AOI BOUNDARY
- DEMOLISHED BUILDING
- NORTHERN PARCEL
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NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. ALL LOCATIONS ARE APPROXIMATE.

0 5' 10'
GRAPHIC SCALE

RACER TRUST
BUICK CITY, FLINT, MICHIGAN

SB-38-06 AREA GROUNDWATER

ARCADIS

FIGURE
5

CITY: SYRACUSE, NY DIVGROUP: ENVCAD DB: G. STOWELL L. FORAKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\Minneapolis-MNRETURN-TO\Syracuse-NYB0064410\2013\01101\DWG\NORTH\64410G06.dwg LAYOUT: 6 SAVED: 11/27/2013 3:53 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: C:\LD2B-PDF PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 11/27/2013 3:53 PM BY: OBERLANDER, ROSEANNE
XREFS:
64410X01
64410X00
64410X02
IMAGES:
PROJECTNAME: ----

SB-38-06	
Depth(ft)	(7 – 9)
Date	9/5/2013
VOC	
Naphthalene (ug/kg)	**1950**
SVOC	
2-Methylnaphthalene (ug/kg)	**4500 Y**
Acenaphthene (ug/kg)	**16900 Y**
Anthracene (ug/kg)	**41900 Y**
Benzo(a)anthracene (ug/kg)	**122200 Y**
Benzo(a)pyrene (ug/kg)	**125800 Y**
Benzo(b)fluoranthene (ug/kg)	**218100 Yp**
Dibenzo(a,h)anthracene (ug/kg)	**26300 Y**
Fluoranthene (ug/kg)	**255600 Y**
Fluorene (ug/kg)	**20900 Y**
Naphthalene (ug/kg)	**4600 Y**
Phenanthrene (ug/kg)	**177900 Y**

SB-38-02	
Depth(ft)	(2 – 3)
Date	9/5/2013
All Analytes	No Exceedances

SB-38-03	
Depth(ft)	(6 – 7)
Date	9/5/2013
All Analytes	No Exceedances

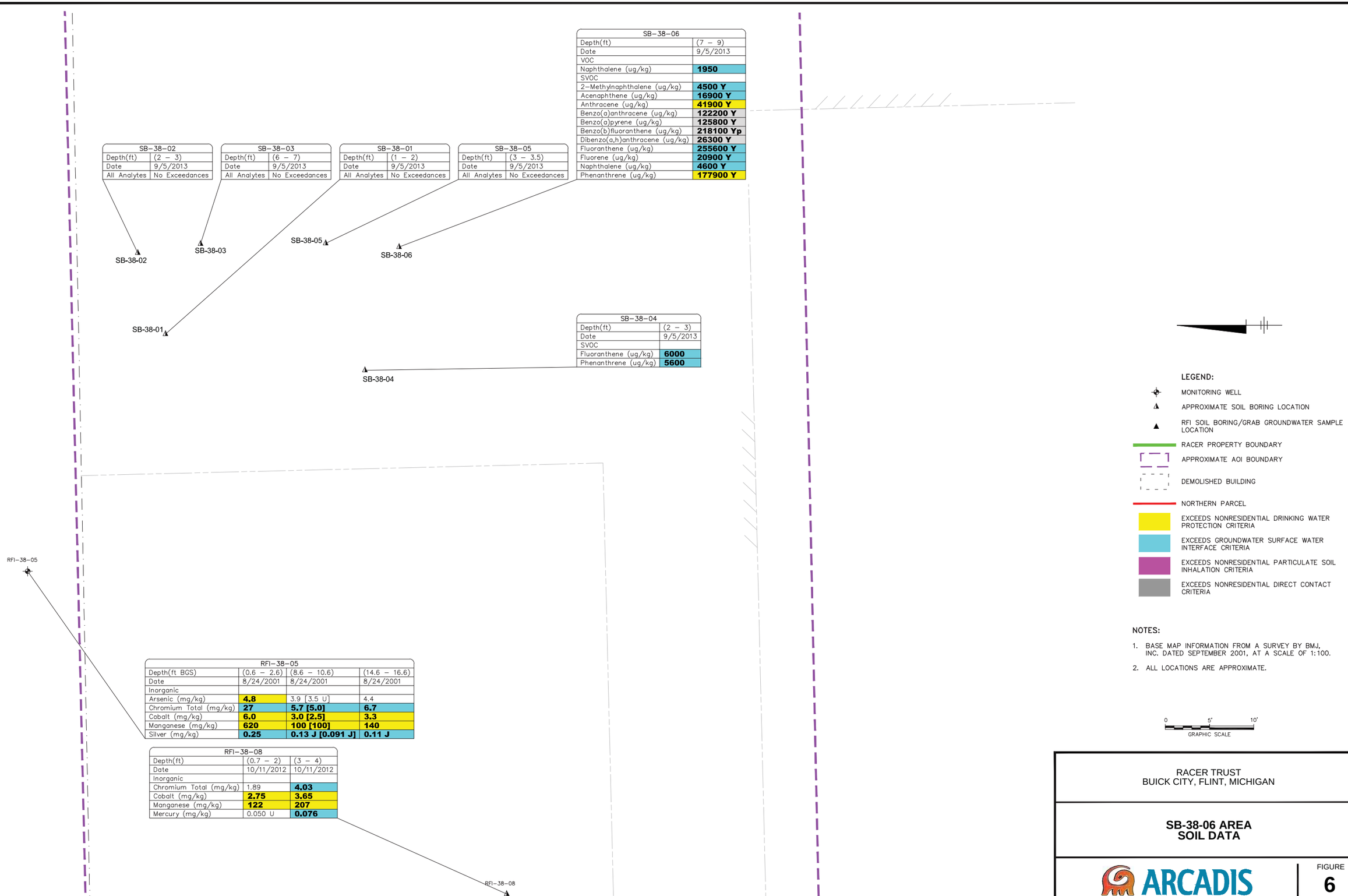
SB-38-01	
Depth(ft)	(1 – 2)
Date	9/5/2013
All Analytes	No Exceedances

SB-38-05	
Depth(ft)	(3 – 3.5)
Date	9/5/2013
All Analytes	No Exceedances

SB-38-04	
Depth(ft)	(2 – 3)
Date	9/5/2013
SVOC	
Fluoranthene (ug/kg)	**6000**
Phenanthrene (ug/kg)	**5600**

RFI-38-05			
Depth(ft BGS)	(0.6 – 2.6)	(8.6 – 10.6)	(14.6 – 16.6)
Date	8/24/2001	8/24/2001	8/24/2001
Inorganic			
Arsenic (mg/kg)	**4.8**	3.9 [3.5 U]	4.4
Chromium Total (mg/kg)	**27**	**5.7 [5.0]**	**6.7**
Cobalt (mg/kg)	**6.0**	**3.0 [2.5]**	**3.3**
Manganese (mg/kg)	**620**	**100 [100]**	**140**
Silver (mg/kg)	**0.25**	**0.13 J [0.091 J]**	**0.11 J**

RFI-38-08		
Depth(ft)	(0.7 – 2)	(3 – 4)
Date	10/11/2012	10/11/2012
Inorganic		
Chromium Total (mg/kg)	1.89	**4.03**
Cobalt (mg/kg)	**2.75**	**3.65**
Manganese (mg/kg)	**122**	**207**
Mercury (mg/kg)	0.050 U	**0.076**



LEGEND:

- MONITORING WELL
- APPROXIMATE SOIL BORING LOCATION
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- RACER PROPERTY BOUNDARY
- APPROXIMATE AOI BOUNDARY
- DEMOLISHED BUILDING
- NORTHERN PARCEL
- EXCEEDS NONRESIDENTIAL DRINKING WATER PROTECTION CRITERIA
- EXCEEDS GROUNDWATER SURFACE WATER INTERFACE CRITERIA
- EXCEEDS NONRESIDENTIAL PARTICULATE SOIL INHALATION CRITERIA
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NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. ALL LOCATIONS ARE APPROXIMATE.

0 5' 10'
GRAPHIC SCALE

RACER TRUST
BUICK CITY, FLINT, MICHIGAN

SB-38-06 AREA SOIL DATA

ARCADIS

FIGURE 6

38–120		
Depth()	(No Depth)	(No Depth)
Date	9/27/2001	10/10/2012
Inorganic		
Manganese (mg/L)	**0.57 J**	**0.671**
Inorganic–Dissolved		
Manganese (Dissolved) (mg/L)	**0.41**	NA

38–120

RFI–BG–10–3

RFI–BG–10–6

RFI–BG–10–9

RFI–BG–10–4

RFI–BG–10–5

RFI–BG–10–8

RFI–BG–10–2

RFI–BG–10

LEGEND:

- MONITORING WELL
- APPROXIMATE SOIL BORING LOCATION
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NOTES:

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0 5' 10'
GRAPHIC SCALE

RACER TRUST
BUICK CITY, FLINT, MICHIGAN

RFI-BG-10 AREA GROUNDWATER

ARCADIS

FIGURE
7

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB: G. STOWELL L. FORAKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\Minneapolis-MN\RETURN-TO\Syracuse-NY\B0064410\2013\01101\DWG\NORTH\64410G07.dwg LAYOUT: 7 SAVED: 12/2/2013 9:46 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: C-LD2B-PDF PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 12/2/2013 9:46 AM BY: OBERLANDER, ROSEANNE
XREFS:
64410X01
64410X00
64410X02
IMAGES:
PROJECTNAME: ----

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB: G. STOWELL L. FORAKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\Minneapolis-MN\RETURN-TO\Syracuse-NY\B0064410\2013\01\1\DWG\NORTH\64410G08.dwg LAYOUT: 8 SAVED: 12/2/2013 9:48 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: C-LD2B-PDF PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 12/2/2013 9:48 AM BY: OBERLANDER, ROSEANNE
XREFS:
64410X01
64410X00
64410X02
IMAGES:
PROJECTNAME: ----

38–120

RFI–BG–10–3

RFI–BG–10–3		
Depth(ft)	(0 – 2)	(3 – 5)
Date	3/22/2013	3/22/2013
Inorganic		
Manganese (mg/kg)	**300**	**472**

RFI–BG–10–9

RFI–BG–10–9	
Depth(ft)	(0.3 – 2)
Date	10/30/2013
Inorganic	
Manganese (mg/kg)	**1240**

RFI–BG–10–4

RFI–BG–10–4		
Depth(ft)	(0 – 2)	(3 – 5)
Date	3/22/2013	3/22/2013
Inorganic		
Manganese (mg/kg)	**708**	**128**

RFI–BG–10–6

RFI–BG–10–6		
Depth(ft)	(0 – 2)	(3 – 5)
Date	3/22/2013	3/22/2013
Inorganic		
Manganese (mg/kg)	**284**	**569**

RFI–BG–10–5

RFI–BG–10–5		
Depth(ft)	(0 – 2)	(3 – 5)
Date	3/22/2013	3/22/2013
Inorganic		
Manganese (mg/kg)	**447**	**646**

RFI–BG–10–8

RFI–BG–10–8	
Depth(ft)	(0.3 – 2)
Date	10/30/2013
Inorganic	
Manganese (mg/kg)	**631**

RFI–BG–10–2

RFI–BG–10–2			
Depth(ft)	(0 – 2)	(0.6 – 1)	(3 – 5)
Date	3/22/2013	10/11/2012	3/22/2013
Inorganic			
Cobalt (mg/kg)	NA	**11.5**	NA
Manganese (mg/kg)	**1470**	**366**	**527**

RFI–BG–10

RFI–BG–10	
Depth(ft BGS)	(0 – 2)
Date	8/29/2002
Inorganic	
Arsenic (mg/kg)	**5.5 J**
Cobalt (mg/kg)	**3.8 J**
Manganese (mg/kg)	**2100**
Manganese (mg/kg)	**2100**
Silver (mg/kg)	**0.26 J**
Zinc (mg/kg)	**720 J**

RFI–BG–10–6
RFI–BG–10–5
RFI–BG–10–4
RFI–BG–10–9
RFI–BG–10–8
RFI–BG–10–2
RFI–BG–10

LEGEND:

- MONITORING WELL
- APPROXIMATE SOIL BORING LOCATION
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- RACER PROPERTY BOUNDARY
- NORTHERN PARCEL
- EXCEEDS NONRESIDENTIAL DRINKING WATER PROTECTION CRITERIA
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NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. ALL LOCATIONS ARE APPROXIMATE.

0 5' 10'
GRAPHIC SCALE

RACER TRUST
BUICK CITY, FLINT, MICHIGAN

RFI-BG-10 AREA SOIL DATA

ARCADIS

FIGURE
8

ARCADIS

Tables

Table 1A
Summary of 2012 Groundwater Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	WS	36-101 10/11/12	36-101 10/18/12	38-120 10/10/12	RFI-36-02 10/11/12	RFI-36-02 11/07/12	RFI-38-04 10/10/12	RFI-38-04 10/18/12	RFI-38-06 10/10/12
VOC																
1,1,1,2-Tetrachloroethane	ug/L	- -	- -	30,000	- -	320	96,000	1,100,000	1 U	NA	1 U	1 U	NA	1 U	NA	1 U [1 U]
1,1,1-Trichloroethane	ug/L	- -	1,300,000	1,300,000	89	200	1,300,000	1,330,000	1	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
1,1,2,2-Tetrachloroethane	ug/L	- -	- -	4,700	78	35	77,000	2,970,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	- -	170,000	170,000	32	170,000	170,000	170,000	NA	NA	NA	NA	30 U	NA	NA	NA
1,1,2-Trichloroethane	ug/L	- -	- -	21,000	330	5	110,000	4,420,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
1,1-Dichloroethane	ug/L	380,000	- -	2,400,000	740	2,500	2,300,000	5,060,000	3	NA	1 U	1 U	1	1 U	NA	1 U [1 U]
1,1-Dichloroethene	ug/L	97,000	140,000	11,000	130	7	1,300	2,250,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	- -	- -	- -	- -	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
1,2,3-Trichloropropane	ug/L	- -	- -	84,000	- -	120	18,000	1,900,000	1 U	NA	1 U	1 U	NA	1 U	NA	1 U [1 U]
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	- -	- -	- -	- -	1 U	NA	1 U	1 U	NA	1 U	NA	1 U [1 U]
1,2,4-Trichlorobenzene	ug/L	- -	300,000	19,000	99	70	300,000	300,000	5 U	NA	5 U	5 U	2 U	5 U	NA	5 U [5 U]
1,2,4-Trimethylbenzene	ug/L	56,000	- -	56,000	17	2,900	56,000	55,890	1 U	NA	1 U	1 U	NA	1 U	NA	1 U [1 U]
1,2-Dibromo-3-chloropropane	ug/L	- -	- -	- -	- -	- -	- -	- -	5 U	NA	5 U	5 U	1 U	5 U	NA	5 U [5 U]
1,2-Dibromoethane	ug/L	- -	- -	25	5.7	0.05	15,000	4,200,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
1,2-Dichlorobenzene	ug/L	- -	160,000	160,000	13	600	160,000	156,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
1,2-Dichloroethane	ug/L	2,500,000	- -	19,000	360	5	59,000	8,520,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
1,2-Dichloropropane	ug/L	550,000	2,800,000	16,000	230	5	36,000	2,800,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
1,3,5-Trimethylbenzene	ug/L	- -	- -	61,000	45	2,900	61,000	61,150	1 U	NA	1 U	1 U	NA	1 U	NA	1 U [1 U]
1,3-Dichlorobenzene	ug/L	- -	- -	2,000	28	19	41,000	111,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
1,4-Dichlorobenzene	ug/L	- -	- -	6,400	17	75	74,000	73,800	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
2-Butanone	ug/L	- -	240,000,000	240,000,000	2,200	38,000	240,000,000	240,000,000	25 U	NA	25 U	25 U	20 U	25 U	NA	25 U [25 U]
2-Hexanone	ug/L	- -	- -	5,200,000	- -	2,900	8,700,000	16,000,000	50 U	NA	50 U	50 U	50 U	50 U	NA	50 U [50 U]
2-Methylnaphthalene	ug/L	- -	- -	25,000	19	750	25,000	24,600	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
4-Methyl-2-pentanone	ug/L	- -	20,000,000	13,000,000	- -	5,200	20,000,000	20,000,000	50 U	NA	50 U	50 U	10 U	50 U	NA	50 U [50 U]
Acetone	ug/L	15,000,000	1,000,000,000	31,000,000	1,700	2,100	1,000,000,000	1,000,000,000	50 U	NA	50 U	50 U	20 U	50 U	NA	50 U [50 U]
Acrylonitrile	ug/L	6,400,000	- -	14,000	2	11	190,000	75,000,000	2 U	NA	2 U	2 U	NA	2 U	NA	2 U [2 U]
Benzene	ug/L	68,000	67,000	11,000	200	5	35,000	1,750,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
Bromobenzene	ug/L	- -	- -	12,000	- -	50	390,000	413,000	1 U	NA	1 U	1 U	NA	1 U	NA	1 U [1 U]
Bromochloromethane	ug/L	- -	- -	- -	- -	- -	- -	- -	1 U	NA	1 U	1 U	NA	1 U	NA	1 U [1 U]
Bromodichloromethane	ug/L	- -	- -	14,000	- -	80	37,000	6,740,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
Bromoform	ug/L	- -	- -	140,000	- -	80	3,100,000	3,100,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
Bromomethane	ug/L	- -	- -	70,000	35	29	9,000	14,500,000	5 U	NA	5 U	5 U	2 U	5 U	NA	5 U [5 U]
Carbon Disulfide	ug/L	13,000	- -	1,200,000	- -	2,300	550,000	1,190,000	5 U	NA	5 U	5 U	5 U	5 U	NA	5 U [5 U]
Carbon Tetrachloride	ug/L	- -	96,000	4,600	45	5	2,400	793,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
Chlorobenzene	ug/L	160,000	- -	86,000	25	100	470,000	472,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
Chloroethane	ug/L	110,000	- -	440,000	1,100	1,700	5,700,000	5,740,000	5 U	NA	5 U	5 U	1 U	5 U	NA	5 U [5 U]
Chloroform	ug/L	- -	- -	150,000	350	80	180,000	7,920,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
Chloromethane	ug/L	36,000	210,000	490,000	- -	1,100	45,000	6,340,000	5 U	NA	5 U	5 U	1 U	5 U	NA	5 U [5 U]
cis-1,2-Dichloroethene	ug/L	530,000	- -	200,000	620	70	210,000	3,500,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	- -	- -	- -	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
Cyclohexane	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	1 U	NA	NA	NA
Dibromochloromethane	ug/L	- -	- -	18,000	- -	80	110,000	2,600,000	5 U	NA	5 U	5 U	1 U	5 U	NA	5 U [5 U]
Dibromomethane	ug/L	- -	- -	530,000	- -	230	- -	11,000,000	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
Dichlorodifluoromethane	ug/L	- -	- -	300,000	- -	4,800	300,000	300,000	5 U	NA	5 U	5 U	1 U	5 U	NA	5 U [5 U]
Diethyl ether	ug/L	650,000	61,000,000	35,000,000	- -	10,000	61,000,000	61,000,000	10 U	NA	10 U	10 U	NA	10 U	NA	10 U [10 U]
Ethylbenzene	ug/L	43,000	170,000	170,000	18	700	170,000	169,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
Hexachloroethane	ug/L	- -	- -	1,900	6.7	21	50,000	50,000	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
Iodomethane	ug/L	- -	- -	- -	- -	- -	- -	- -	1 U	NA	1 U	1 U	NA	1 U	NA	1 U [1 U]
Isopropylbenzene	ug/L	29,000	- -	56,000	28	2,300	56,000	56,000	5 U	NA	5 U	5 U	1 U	5 U	NA	5 U [5 U]
m&p-Xylene	ug/L	- -	- -	- -	- -	- -	- -	- -	2 U	NA	2 U	2 U	2 U	2 U	NA	2 U [2 U]
Methyl acetate	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	10 U	NA	NA	NA
Methyl tert-butyl ether	ug/L	- -	- -	610,000	7,100	690	47,000,000	46,800,000	5 U	NA	5 U	5 U	5 U	5 U	NA	5 U [5 U]
Methylcyclohexane	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	20 U	NA	NA	NA
Methylene Chloride	ug/L	- -	- -	220,000	1,500	5	1,400,000	17,000,000	5 U	NA	5 U	5 U	5 U	5 U	NA	5 U [5 U]
Naphthalene	ug/L	- -	31,000	31,000	11	1,500	31,000	31,000	5 U	NA	5 U	5 U	5 U	5 U	NA	5 U [5 U]

Table 1A
Summary of 2012 Groundwater Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	WS	36-101 10/11/12	36-101 10/18/12	38-120 10/10/12	RFI-36-02 10/11/12	RFI-36-02 11/07/12	RFI-38-04 10/10/12	RFI-38-04 10/18/12	RFI-38-06 10/10/12
n-Butylbenzene	ug/L	- -	- -	5,900	- -	230	- -	- -	1 U	NA	1 U	1 U	NA	1 U	NA	1 U [1 U]
n-Propylbenzene	ug/L	- -	- -	15,000	- -	230	- -	- -	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
o-Xylene	ug/L	- -	- -	- -	- -	- -	- -	- -	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
p-Isopropyltoluene	ug/L	- -	- -	- -	- -	- -	- -	- -	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
sec-Butylbenzene	ug/L	- -	- -	4,400	- -	230	- -	- -	1 U	NA	1 U	1 U	NA	1 U	NA	1 U [1 U]
Styrene	ug/L	140,000	310,000	9,700	80	100	310,000	310,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
tert-Butylbenzene	ug/L	- -	- -	8,900	- -	230	- -	- -	1 U	NA	1 U	1 U	NA	1 U	NA	1 U [1 U]
Tetrachloroethene	ug/L	- -	200,000	12,000	60	5	170,000	200,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
Tetrahydrofuran	ug/L	60,000	3,600,000	1,600,000	11,000	270	16,000,000	1,000,000,000	90 U	NA	90 U	90 U	NA	90 U	NA	90 U [90 U]
Toluene	ug/L	61,000	- -	530,000	270	1,000	530,000	526,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
trans-1,2-Dichloroethene	ug/L	230,000	- -	220,000	1,500	100	200,000	6,300,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	- -	- -	- -	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	- -	- -	- -	- -	1 U	NA	1 U	1 U	NA	1 U	NA	1 U [1 U]
Trichloroethene	ug/L	- -	1,100,000	22,000	200	5	97,000	1,100,000	1 U	NA	1 U	1 U	1 U	1 U	NA	**7 [8]**
Trichlorofluoromethane	ug/L	- -	1,100,000	1,100,000	- -	7,300	1,100,000	1,100,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
Vinyl Chloride	ug/L	33,000	- -	1,000	13	2	13,000	2,760,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U [1 U]
SVOC																
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	- -	300,000	19,000	99	70	300,000	300,000	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
1,2-Dichlorobenzene	ug/L	- -	160,000	160,000	13	600	160,000	156,000	1 U	NA	1 U	1 U	NA	1 U	NA	1 U [1 U]
1,2-Diphenylhydrazine	ug/L	- -	- -	- -	- -	- -	- -	- -	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
1,3-Dichlorobenzene	ug/L	- -	- -	2,000	28	19	41,000	111,000	1 U	NA	1 U	1 U	NA	1 U	NA	1 U [1 U]
1,4-Dichlorobenzene	ug/L	- -	- -	6,400	17	75	74,000	73,800	1 U	NA	1 U	1 U	NA	1 U	NA	1 U [1 U]
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	- -	- -	- -	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
2,4,5-Trichlorophenol	ug/L	- -	- -	170,000	- -	2,100	- -	1,200,000	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
2,4,6-Trichlorophenol	ug/L	- -	- -	10,000	5	470	- -	800,000	4 U	NA	4 U	4 U	NA	4 U	NA	4 U [4 U]
2,4-Dichlorophenol	ug/L	- -	- -	48,000	11	210	- -	4,500,000	10 U	NA	10 U	10 U	NA	10 U	NA	10 U [10 U]
2,4-Dimethylphenol	ug/L	- -	- -	520,000	380	1,000	- -	7,870,000	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	- -	- -	- -	25 U	NA	25 U	25 U	NA	25 U	NA	25 U [25 U]
2,4-Dinitrotoluene	ug/L	- -	- -	8,600	- -	32	- -	270,000	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	- -	- -	- -	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
2-Chloronaphthalene	ug/L	- -	- -	6,700	- -	5,200	- -	6,740	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
2-Chlorophenol	ug/L	- -	- -	94,000	18	130	1,100,000	22,000,000	10 U	NA	10 U	10 U	NA	10 U	NA	10 U [10 U]
2-Methylnaphthalene	ug/L	- -	- -	25,000	19	750	25,000	24,600	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
2-Methylphenol	ug/L	- -	- -	- -	- -	- -	- -	- -	10 U	NA	10 U	10 U	NA	10 U	NA	10 U [10 U]
2-Nitroaniline	ug/L	- -	- -	- -	- -	- -	- -	- -	25 U	NA	25 U	25 U	NA	25 U	NA	25 U [25 U]
2-Nitrophenol	ug/L	- -	- -	79,000	- -	58	- -	2,500,000	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
3&4-Methylphenol	ug/L	- -	- -	- -	- -	- -	- -	- -	20 U	NA	20 U	20 U	NA	20 U	NA	20 U [20 U]
3,3'-Dichlorobenzidine	ug/L	- -	- -	180	0.3	4.3	- -	3,110	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
3-Nitroaniline	ug/L	- -	- -	- -	- -	- -	- -	- -	25 U	NA	25 U	25 U	NA	25 U	NA	25 U [25 U]
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	- -	- -	- -	20 U	NA	20 U	20 U	NA	20 U	NA	20 U [20 U]
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	- -	- -	- -	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
4-Chloro-3-Methylphenol	ug/L	- -	- -	79,000	7.4	420	- -	3,900,000	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
4-Chloroaniline	ug/L	- -	- -	- -	- -	- -	- -	- -	10 U	NA	10 U	10 U	NA	10 U	NA	10 U [10 U]
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	- -	- -	- -	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
4-Nitroaniline	ug/L	- -	- -	- -	- -	- -	- -	- -	25 U	NA	25 U	25 U	NA	25 U	NA	25 U [25 U]
4-Nitrophenol	ug/L	- -	- -	- -	- -	- -	- -	- -	25 U	NA	25 U	25 U	NA	25 U	NA	25 U [25 U]
Acenaphthene	ug/L	- -	- -	4,200	38	3,800	4,200	4,240	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
Acenaphthylene	ug/L	- -	- -	3,900	- -	150	3,900	3,930	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
Acetophenone	ug/L	- -	- -	6,100,000	- -	4,400	6,100,000	6,100,000	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	- -	- -	43	- -	43	43	43.4	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
Atrazine	ug/L	- -	- -	5,400	7.3	3	- -	70,000	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	- -	- -	9.4	- -	8.5	- -	9.4	1 U	NA	1 U	1 U	NA	1 U	NA	1 U [1 U]
Benzo(a)pyrene	ug/L	- -	- -	1	- -	5	- -	1.62	1 U	NA	1 U	1 U	NA	1 U	NA	1 U [1 U]

Table 1A
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Northern Parcel - Buick City Site
Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	WS	36-101 10/11/12	36-101 10/18/12	38-120 10/10/12	RFI-36-02 10/11/12	RFI-36-02 11/07/12	RFI-38-04 10/10/12	RFI-38-04 10/18/12	RFI-38-06 10/10/12
Benzo(b)fluoranthene	ug/L	- -	- -	1.5	- -	1.5	- -	1.5	1 U	NA	1 U	1 U	NA	1 U	NA	1 U [1 U]
Benzo(g,h,i)perylene	ug/L	- -	- -	1	- -	1	- -	0.26	1 U	NA	1 U	1 U	NA	1 U	NA	1 U [1 U]
Benzo(k)fluoranthene	ug/L	- -	- -	1	- -	1	- -	0.8	1 U	NA	1 U	1 U	NA	1 U	NA	1 U [1 U]
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	- -	- -	- -	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
bis(2-Chloroethyl)ether	ug/L	17,000,000	17,000,000	5,700	1	8.3	210,000	17,200,000	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
bis(2-Ethylhexyl)phthalate	ug/L	- -	340	320	25	6	- -	340	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
Butylbenzylphthalate	ug/L	- -	- -	2,700	67	2,700	- -	2,690	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
Caprolactam	ug/L	- -	1,000,000,000	390,000,000	- -	17,000	- -	5,250,000,000	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	- -	- -	7,400	10	350	- -	7,480	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	- -	- -	1.6	- -	1.6	- -	1.6	1 U	NA	1 U	1 U	NA	1 U	NA	1 U [1 U]
Dibenzo(a,h)anthracene	ug/L	- -	- -	2	- -	2	- -	2.49	2 U	NA	2 U	2 U	NA	2 U	NA	2 U [2 U]
Dibenzofuran	ug/L	- -	- -	- -	4	- -	10,000	10,000	4 U	NA	4 U	4 U	NA	4 U	NA	4 U [4 U]
Diethylphthalate	ug/L	- -	- -	1,100,000	110	16,000	- -	1,080,000	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
Dimethylphthalate	ug/L	- -	- -	4,200,000	- -	210,000	- -	4,190,000	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
Di-n-Butylphthalate	ug/L	- -	- -	11,000	9.7	2,500	- -	11,200	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
Di-n-Octylphthalate	ug/L	- -	- -	400	- -	380	- -	3,000	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
Fluoranthene	ug/L	- -	- -	210	1.6	210	210	206	1 U	NA	1 U	1 U	NA	1 U	NA	1 U [1 U]
Fluorene	ug/L	- -	- -	2,000	12	2,000	2,000	1,980	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
Hexachlorobenzene	ug/L	- -	- -	4.6	0.2	1	3,000	6,200	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
Hexachlorobutadiene	ug/L	- -	- -	400	0.053	42	3,200	3,230	10 U	NA	10 U	10 U	NA	10 U	NA	10 U [10 U]
Hexachlorocyclopentadiene	ug/L	- -	- -	1,600	- -	50	420	1,800	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
Hexachloroethane	ug/L	- -	- -	1,900	6.7	21	50,000	50,000	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
Indeno(1,2,3-cd)pyrene	ug/L	- -	- -	2	- -	2	- -	0.022	2 U	NA	2 U	2 U	NA	2 U	NA	2 U [2 U]
Isophorone	ug/L	- -	12,000,000	990,000	1,300	3,100	- -	12,000,000	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
Methylphenols, Total	ug/L	- -	- -	810,000	30	1,000	- -	28,000,000	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	- -	31,000	31,000	11	1,500	31,000	31,000	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
Nitrobenzene	ug/L	- -	- -	11,000	180	9.6	550,000	2,090,000	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
N-Nitroso-di-n-propylamine	ug/L	- -	- -	360	- -	5	- -	9,890,000	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
N-Nitrosodiphenylamine	ug/L	- -	- -	35,000	- -	1,100	- -	35,100	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
Pentachlorophenol	ug/L	- -	- -	200	2.8	1	- -	1,850,000	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
Phenanthrene	ug/L	- -	- -	1,000	2	150	1,000	1,000	2 U	NA	2 U	2 U	NA	2 U	NA	2 U [2 U]
Phenol	ug/L	- -	- -	29,000,000	450	13,000	- -	82,800,000	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
Pyrene	ug/L	- -	- -	140	- -	140	140	135	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
PCB																
Aroclor-1016	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	0.1 U	0.1 U	NA	0.1 U	NA	0.1 U [0.1 U]
Aroclor-1221	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	0.1 U	0.1 U	NA	0.1 U	NA	0.1 U [0.1 U]
Aroclor-1232	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	0.1 U	0.1 U	NA	0.1 U	NA	0.1 U [0.1 U]
Aroclor-1242	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	0.1 U	0.1 U	NA	0.1 U	NA	0.1 U [0.1 U]
Aroclor-1248	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	0.1 U	0.1 U	NA	0.1 U	NA	0.1 U [0.1 U]
Aroclor-1254	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	0.1 U	0.1 U	NA	0.1 U	NA	0.1 U [0.1 U]
Aroclor-1260	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	0.1 U	0.1 U	NA	0.1 U	NA	0.1 U [0.1 U]
Total PCBs	ug/L	- -	- -	3.3	0.2	0.5	45	44.7	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																
Antimony	ug/L	- -	- -	68,000	130	6	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	ug/L	- -	- -	4,300	10	10	- -	- -	2 U	NA	2 U	9	**22 [23]**	2 U	NA	2 U [2 U]
Barium	ug/L	- -	- -	14,000,000	1,308	2,000	- -	- -	46	NA	93	352	NA	66	NA	70 [71]
Beryllium	ug/L	- -	- -	290,000	32.3	4	- -	- -	1 U	NA	1 U	1 U	NA	1 U	NA	1 U [1 U]
Cadmium	ug/L	- -	- -	190,000	4.8	5	- -	- -	0.5	NA	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U [0.5 U]
Chromium Total	ug/L	- -	- -	460,000	11	100	- -	- -	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
Cobalt	ug/L	- -	- -	2,400,000	100	100	- -	- -	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
Copper	ug/L	- -	- -	7,400,000	21.6	4,000	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	ug/L	- -	- -	57,000	5.2	200	- -	- -	5 U	5 U	5 U	5 U	NA	5 U	5 U [5 U]	5 U [5 U]
Lead	ug/L	- -	- -	- -	30.9	4	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/L	- -	- -	9,100,000	4,767	2,500	- -	- -	500	NA	671	1,070	NA	19	NA	866 [886]
Mercury	ug/L	- -	- -	56	0.0013	2	56	56	0.2 U	NA	0.2 U	0.2 U	NA	0.2 U	NA	0.2 U [0.2 U]

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Northern Parcel - Buick City Site
Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	WS	36-101 10/11/12	36-101 10/18/12	38-120 10/10/12	RFI-36-02 10/11/12	RFI-36-02 11/07/12	RFI-38-04 10/10/12	RFI-38-04 10/18/12	RFI-38-06 10/10/12
Nickel	ug/L	- -	- -	74,000,000	124.3	100	- -	- -	12	NA	7	52	NA	5 U	NA	11 [9]
Selenium	ug/L	- -	- -	970,000	5	50	- -	- -	5 U	NA	5 U	5 U	NA	5 U	NA	5 U [5 U]
Silver	ug/L	- -	- -	1,500,000	0.2	98	- -	- -	0.2 U	NA	0.2 U	0.2 U	NA	0.2 U	NA	0.2 U [0.2 U]
Thallium	ug/L	- -	- -	13,000	3.7	2	- -	- -	2 U	NA	2 U	2 U	NA	2 U	NA	2 U [2 U]
Vanadium	ug/L	- -	- -	970,000	12	62	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/L	- -	- -	110,000,000	282.7	5,000	- -	- -	27	NA	5 U	5 U	NA	5 U	NA	6 [11]

Note:
During the 2012 sampling event two of the groundwater samples were accidentally mis-named in the field. The sample collected from monitoring well 36-101 was mis-named 38-101 and sample RFI-36-02 was mis-named RFI-38-02. The well names have been corrected on this table.

Table 1B
Summary of Groundwater Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: / Sample Depth(): / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	WS	36-101 09/28/01	36-101 06/13/02	36-101 11/02/06	36-101 04/23/07	36-101 06/27/07	36-101 10/11/12	36-101 10/18/12	36-121 09/27/01	38-120 09/27/01	38-120 10/10/12	RFI-36-02 10/04/01	RFI-36-02 06/13/02
VOC																				
1,1,1,2-Tetrachloroethane	ug/L	- -	- -	30,000	- -	320	96,000	1,100,000	NA	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA
1,1,1-Trichloroethane	ug/L	- -	1,300,000	1,300,000	89	200	1,300,000	1,330,000	1 U	NA	0.2 J	0.3 J	0.2 J	1	NA	1 U	1 U	1 U	1 U	NA
1,1,2,2-Tetrachloroethane	ug/L	- -	- -	4,700	78	35	77,000	2,970,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	- -	170,000	170,000	32	170,000	170,000	170,000	1 U	NA	30 U	30 U	30 U	NA	NA	1 U	1 U	NA	1 U	NA
1,1,2-Trichloroethane	ug/L	- -	- -	21,000	330	5	110,000	4,420,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA
1,1-Dichloroethane	ug/L	380,000	- -	2,400,000	740	2,500	2,300,000	5,060,000	5.9	NA	11	18	20	3	NA	1 U	1 U	1 U	0.76 J	NA
1,1-Dichloroethene	ug/L	97,000	140,000	11,000	130	7	1,300	2,250,000	1 U	NA	0.1 J	0.2 J	0.3 J	1 U	NA	1 U	1 U	1 U	1 U	NA
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
1,2,3-Trichloropropane	ug/L	- -	- -	84,000	- -	120	18,000	1,900,000	NA	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA
1,2,4-Trichlorobenzene	ug/L	- -	300,000	19,000	99	70	300,000	300,000	5 U	NA	2 U	2 U	2 U	5 U	NA	5 U	5 U	5 U	5 U	NA
1,2,4-Trimethylbenzene	ug/L	56,000	- -	56,000	17	2,900	56,000	55,890	NA	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	- -	- -	- -	- -	- -	- -	- -	1 U	NA	1 U	1 U	1 U	5 U	NA	1 U	1 U	5 U	1 U	NA
1,2-Dibromoethane	ug/L	- -	- -	25	5.7	0.05	15,000	4,200,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA
1,2-Dichlorobenzene	ug/L	- -	160,000	160,000	13	600	160,000	156,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA
1,2-Dichloroethane	ug/L	2,500,000	- -	19,000	360	5	59,000	8,520,000	1 U	NA	0.5 J	1	1	1 U	NA	1 U	1 U	1 U	1 U	NA
1,2-Dichloropropane	ug/L	550,000	2,800,000	16,000	230	5	36,000	2,800,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA
1,3,5-Trimethylbenzene	ug/L	- -	- -	61,000	45	2,900	61,000	61,150	NA	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA
1,3-Dichlorobenzene	ug/L	- -	- -	2,000	28	19	41,000	111,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA
1,4-Dichlorobenzene	ug/L	- -	- -	6,400	17	75	74,000	73,800	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA
2-Butanone	ug/L	- -	240,000,000	240,000,000	2,200	38,000	240,000,000	240,000,000	25 U	NA	20 U	20 U	20 U	25 U	NA	25 U	25 U	25 U	25 U	NA
2-Hexanone	ug/L	- -	- -	5,200,000	- -	2,900	8,700,000	16,000,000	50 U	NA	50 U	50 U	50 U	50 U	NA	50 U	50 U	50 U	50 U	NA
2-Methylnaphthalene	ug/L	- -	- -	25,000	19	750	25,000	24,600	NA	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
4-Methyl-2-pentanone	ug/L	- -	20,000,000	13,000,000	- -	5,200	20,000,000	20,000,000	50 U	NA	10 U	10 U	10 U	50 U	NA	50 U	50 U	50 U	50 U	NA
Acetone	ug/L	15,000,000	1,000,000,000	31,000,000	1,700	2,100	1,000,000,000	1,000,000,000	25 U	NA	20 U	20 UJ	20 U	50 U	NA	0.8 J	0.9 J	50 U	25 U	NA
Acrylonitrile	ug/L	6,400,000	- -	14,000	2	11	190,000	75,000,000	NA	NA	NA	NA	NA	2 U	NA	NA	NA	2 U	NA	NA
Benzene	ug/L	68,000	67,000	11,000	200	5	35,000	1,750,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA
Bromobenzene	ug/L	- -	- -	12,000	- -	50	390,000	413,000	NA	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA
Bromodichloromethane	ug/L	- -	- -	14,000	- -	80	37,000	6,740,000	1 U	NA	1	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA
Bromoform	ug/L	- -	- -	140,000	- -	80	3,100,000	3,100,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA
Bromomethane	ug/L	- -	- -	70,000	35	29	9,000	14,500,000	1 U	NA	2 U	2 U	2 U	5 U	NA	1 U	1 U	5 U	1 U	NA
Carbon Disulfide	ug/L	13,000	- -	1,200,000	- -	2,300	550,000	1,190,000	5 U	NA	5 U	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	NA
Carbon Tetrachloride	ug/L	- -	96,000	4,600	45	5	2,400	793,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA
Chlorobenzene	ug/L	160,000	- -	86,000	25	100	470,000	472,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA
Chloroethane	ug/L	110,000	- -	440,000	1,100	1,700	5,700,000	5,740,000	1 U	NA	1 U	1 U	1 U	5 U	NA	1 U	1 U	5 U	1 U	NA
Chloroform	ug/L	- -	- -	150,000	350	80	180,000	7,920,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA
Chloromethane	ug/L	36,000	210,000	490,000	- -	1,100	45,000	6,340,000	1 U	NA	1 U	1 U	1 U	5 U	NA	1 U	1 U	5 U	1 U	NA
cis-1,2-Dichloroethene	ug/L	530,000	- -	200,000	620	70	210,000	3,500,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	- -	- -	- -	1 U	NA	1 UJ	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA
Cyclohexane	ug/L	- -	- -	- -	- -	- -	- -	- -	5 U	NA	1 U	1 UJ	1 U	NA	NA	5 U	5 U	NA	5 U	NA
Dibromochloromethane	ug/L	- -	- -	18,000	- -	80	110,000	2,600,000	1 U	NA	1 U	1 U	1 U	5 U	NA	1 U	1 U	5 U	1 U	NA
Dibromomethane	ug/L	- -	- -	530,000	- -	230	- -	11,000,000	NA	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
Dichlorodifluoromethane	ug/L	- -	- -	300,000	- -	4,800	300,000	300,000	1 U	NA	1 U	1 U	1 UJ	5 U	NA	1 U	1 U	5 U	1 U	NA
Diethyl ether	ug/L	650,000	61,000,000	35,000,000	- -	10,000	61,000,000	61,000,000	NA	NA	NA	NA	NA	10 U	NA	NA	NA	10 U	NA	NA
Ethylbenzene	ug/L	43,000	170,000	170,000	18	700	170,000	169,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA
Hexachloroethane	ug/L	- -	- -	1,900	6.7	21	50,000	50,000	NA	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
Iodomethane	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA
Isopropylbenzene	ug/L	29,000	- -	56,000	28	2,300	56,000	56,000	5 U	NA	1 U	1 U	1 U	5 U	NA	5 U	5 U	5 U	5 U	NA
m&p-Xylene	ug/L	- -	- -	- -	- -	- -	- -	- -	2 U	NA	1 U	1 U	1 U	2 U	NA	2 U	2 U	2 U	2 U	NA
Methyl acetate	ug/L	- -	- -	- -	- -	- -	- -	- -	5 U	NA	10 U	10 U	10 U	NA	NA	5 U	5 U	NA	5 U	NA
Methyl tert-butyl ether	ug/L	- -	- -	610,000	7,100	690	47,000,000	46,800,000	5 U	NA	5 U	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	NA
Methylcyclohexane	ug/L	- -	- -	- -	- -	- -	- -	- -	1 U	NA	20 U	20 U	20 U	NA	NA	1 U	1 U	NA	1 U	NA
Methylene Chloride	ug/L	- -	- -	220,000	1,500	5	1,400,000	17,000,000	5 U	NA	5 U	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	NA
Naphthalene	ug/L	- -	31,000	31,000	11	1,500	31,000	31,000	NA	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	NA	NA

Table 1B
Summary of Groundwater Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: / Sample Depth(): / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	WS	36-101 09/28/01	36-101 06/13/02	36-101 11/02/06	36-101 04/23/07	36-101 06/27/07	36-101 10/11/12	36-101 10/18/12	36-121 09/27/01	38-120 09/27/01	38-120 10/10/12	RFI-36-02 10/04/01	RFI-36-02 06/13/02
n-Butylbenzene	ug/L	- -	- -	5,900	- -	230	- -	- -	NA	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA
n-Propylbenzene	ug/L	- -	- -	15,000	- -	230	- -	- -	NA	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA
o-Xylene	ug/L	- -	- -	- -	- -	- -	- -	- -	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA
p-Isopropyltoluene	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
sec-Butylbenzene	ug/L	- -	- -	4,400	- -	230	- -	- -	NA	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA
Styrene	ug/L	140,000	310,000	9,700	80	100	310,000	310,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA
tert-Butylbenzene	ug/L	- -	- -	8,900	- -	230	- -	- -	NA	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA
Tetrachloroethene	ug/L	- -	200,000	12,000	60	5	170,000	200,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 UJ	NA
Tetrahydrofuran	ug/L	60,000	3,600,000	1,600,000	11,000	270	16,000,000	1,000,000,000	NA	NA	NA	NA	NA	90 U	NA	NA	NA	90 U	NA	NA
Toluene	ug/L	61,000	- -	530,000	270	1,000	530,000	526,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA
trans-1,2-Dichloroethene	ug/L	230,000	- -	220,000	1,500	100	200,000	6,300,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	- -	- -	- -	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA
Trichloroethene	ug/L	- -	1,100,000	22,000	200	5	97,000	1,100,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA
Trichlorofluoromethane	ug/L	- -	1,100,000	1,100,000	- -	7,300	1,100,000	1,100,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA
Vinyl Chloride	ug/L	33,000	- -	1,000	13	2	13,000	2,760,000	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA
SVOC																				
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	- -	- -	- -	5.1 U	NA	NA	NA	NA	NA	NA	5.3 U	5.3 U	NA	5 U	NA
1,2,4-Trichlorobenzene	ug/L	- -	300,000	19,000	99	70	300,000	300,000	NA	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
1,2-Dichlorobenzene	ug/L	- -	160,000	160,000	13	600	160,000	156,000	NA	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA
1,2-Diphenylhydrazine	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
1,3-Dichlorobenzene	ug/L	- -	- -	2,000	28	19	41,000	111,000	NA	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA
1,4-Dichlorobenzene	ug/L	- -	- -	6,400	17	75	74,000	73,800	NA	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	- -	- -	- -	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
2,4,5-Trichlorophenol	ug/L	- -	- -	170,000	- -	2,100	- -	1,200,000	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
2,4,6-Trichlorophenol	ug/L	- -	- -	10,000	5	470	- -	800,000	4.1 U	NA	NA	NA	NA	4 U	NA	4.2 U	4.2 U	4 U	4 U	NA
2,4-Dichlorophenol	ug/L	- -	- -	48,000	11	210	- -	4,500,000	10 U	NA	NA	NA	NA	10 U	NA	11 U	11 U	10 U	10 U	NA
2,4-Dimethylphenol	ug/L	- -	- -	520,000	380	1,000	- -	7,870,000	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	- -	- -	- -	20 U	NA	NA	NA	NA	25 U	NA	21 U	21 U	25 U	20 U	NA
2,4-Dinitrotoluene	ug/L	- -	- -	8,600	- -	32	- -	270,000	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	- -	- -	- -	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
2-Chloronaphthalene	ug/L	- -	- -	6,700	- -	5,200	- -	6,740	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
2-Chlorophenol	ug/L	- -	- -	94,000	18	130	1,100,000	22,000,000	5.1 U	NA	NA	NA	NA	10 U	NA	5.3 U	5.3 U	10 U	5 U	NA
2-Methylnaphthalene	ug/L	- -	- -	25,000	19	750	25,000	24,600	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	- -	- -	- -	5.1 U	NA	NA	NA	NA	10 U	NA	5.3 U	5.3 U	10 U	5 U	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	- -	- -	- -	20 U	NA	NA	NA	NA	25 U	NA	21 U	21 U	25 U	20 U	NA
2-Nitrophenol	ug/L	- -	- -	79,000	- -	58	- -	2,500,000	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
3&4-Methylphenol	ug/L	- -	- -	- -	- -	- -	- -	- -	10 UJ	NA	NA	NA	NA	20 U	NA	11 UJ	11 UJ	20 U	10 UJ	NA
3,3'-Dichlorobenzidine	ug/L	- -	- -	180	0.3	4.3	- -	3,110	20 U	NA	NA	NA	NA	5 U	NA	21 U	21 U	5 U	20 U	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	- -	- -	- -	20 U	NA	NA	NA	NA	25 U	NA	21 U	21 U	25 U	20 U	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	- -	- -	- -	20 U	NA	NA	NA	NA	20 U	NA	21 U	21 U	20 U	20 U	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	- -	- -	- -	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
4-Chloro-3-Methylphenol	ug/L	- -	- -	79,000	7.4	420	- -	3,900,000	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
4-Chloroaniline	ug/L	- -	- -	- -	- -	- -	- -	- -	20 U	NA	NA	NA	NA	10 U	NA	21 U	21 U	10 U	20 U	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	- -	- -	- -	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	- -	- -	- -	20 U	NA	NA	NA	NA	25 U	NA	21 U	21 U	25 U	20 U	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	- -	- -	- -	20 U	NA	NA	NA	NA	25 U	NA	21 U	21 U	25 U	20 U	NA
Acenaphthene	ug/L	- -	- -	4,200	38	3,800	4,200	4,240	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
Acenaphthylene	ug/L	- -	- -	3,900	- -	150	3,900	3,930	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
Acetophenone	ug/L	- -	- -	6,100,000	- -	4,400	6,100,000	6,100,000	5.1 U	NA	NA	NA	NA	NA	NA	5.3 U	5.3 U	NA	5 U	NA
Anthracene	ug/L	- -	- -	43	- -	43	43	43.4	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
Atrazine	ug/L	- -	- -	5,400	7.3	3	- -	70,000	5.1 UJ	NA	NA	NA	NA	NA	NA	5.3 U	5.3 U	NA	5 U	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	- -	- -	- -	5.1 U	NA	NA	NA	NA	NA	NA	5.3 U	5.3 U	NA	5 U	NA
Benzo(a)anthracene	ug/L	- -	- -	9.4	- -	8.5	- -	9.4	1 U	NA	NA	NA	NA	1 U	NA	1.1 U	1.1 U	1 U	1 U	NA
Benzo(a)pyrene	ug/L	- -	- -	1	- -	5	- -	1.62	2 U	NA	NA	NA	NA	1 U	NA	2.1 U	2.1 U	1 U	2 U	NA
Benzo(b)fluoranthene	ug/L	- -	- -	1.5	- -	1.5	- -	1.5	2 U	NA	NA	NA	NA	1 U	NA	2.1 U	2.1 U	1 U	2 U	NA

Table 1B
Summary of Groundwater Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: / Sample Depth(): / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	WS	36-101 09/28/01	36-101 06/13/02	36-101 11/02/06	36-101 04/23/07	36-101 06/27/07	36-101 10/11/12	36-101 10/18/12	36-121 09/27/01	38-120 09/27/01	38-120 10/10/12	RFI-36-02 10/04/01	RFI-36-02 06/13/02
Benzo(g,h,i)perylene	ug/L	- -	- -	1	- -	1	- -	0.26	5.1 U	NA	NA	NA	NA	1 U	NA	5.3 U	5.3 U	1 U	5 U	NA
Benzo(k)fluoranthene	ug/L	- -	- -	1	- -	1	- -	0.8	5.1 U	NA	NA	NA	NA	1 U	NA	5.3 U	5.3 U	1 U	5 U	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	- -	- -	- -	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000	17,000,000	5,700	1	8.3	210,000	17,200,000	1 U	NA	NA	NA	NA	5 U	NA	1.1 U	1.1 U	5 U	1 U	NA
bis(2-Ethylhexyl)phthalate	ug/L	- -	340	320	25	6	- -	340	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
Butylbenzylphthalate	ug/L	- -	- -	2,700	67	2,700	- -	2,690	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
Caprolactam	ug/L	- -	1,000,000,000	390,000,000	- -	17,000	- -	5,250,000,000	10 U	NA	NA	NA	NA	NA	NA	11 U	11 U	NA	10 U	NA
Carbazole	ug/L	- -	- -	7,400	10	350	- -	7,480	10 U	NA	NA	NA	NA	NA	NA	11 U	11 U	NA	10 U	NA
Chrysene	ug/L	- -	- -	1.6	- -	1.6	- -	1.6	5.1 U	NA	NA	NA	NA	1 U	NA	5.3 U	5.3 U	1 U	5 U	NA
Dibenzo(a,h)anthracene	ug/L	- -	- -	2	- -	2	- -	2.49	2 U	NA	NA	NA	NA	2 U	NA	2.1 U	2.1 U	2 U	2 U	NA
Dibenzofuran	ug/L	- -	- -	- -	4	- -	10,000	10,000	4.1 U	NA	NA	NA	NA	4 U	NA	4.2 U	4.2 U	4 U	4 U	NA
Diethylphthalate	ug/L	- -	- -	1,100,000	110	16,000	- -	1,080,000	1.47 J	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
Dimethylphthalate	ug/L	- -	- -	4,200,000	- -	210,000	- -	4,190,000	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
Di-n-Butylphthalate	ug/L	- -	- -	11,000	9.7	2,500	- -	11,200	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
Di-n-Octylphthalate	ug/L	- -	- -	400	- -	380	- -	3,000	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
Fluoranthene	ug/L	- -	- -	210	1.6	210	210	206	2 U	NA	NA	NA	NA	1 U	NA	2.1 U	2.1 U	1 U	2 U	NA
Fluorene	ug/L	- -	- -	2,000	12	2,000	2,000	1,980	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
Hexachlorobenzene	ug/L	- -	- -	4.6	0.2	1	3,000	6,200	1 U	NA	NA	NA	NA	5 U	NA	1.1 U	1.1 U	5 U	1 U	NA
Hexachlorobutadiene	ug/L	- -	- -	400	0.053	42	3,200	3,230	5.1 U	NA	NA	NA	NA	10 U	NA	5.3 U	5.3 U	10 U	5 U	NA
Hexachlorocyclopentadiene	ug/L	- -	- -	1,600	- -	50	420	1,800	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
Hexachloroethane	ug/L	- -	- -	1,900	6.7	21	50,000	50,000	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
Indeno(1,2,3-cd)pyrene	ug/L	- -	- -	2	- -	2	- -	0.022	2 U	NA	NA	NA	NA	2 U	NA	2.1 U	2.1 U	2 U	2 U	NA
Isophorone	ug/L	- -	12,000,000	990,000	1,300	3,100	- -	12,000,000	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
Methylphenols, Total	ug/L	- -	- -	810,000	30	1,000	- -	28,000,000	5.1 U	NA	NA	NA	NA	NA	NA	5.3 U	5.3 U	NA	5 U	NA
Naphthalene	ug/L	- -	31,000	31,000	11	1,500	31,000	31,000	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
Nitrobenzene	ug/L	- -	- -	11,000	180	9.6	550,000	2,090,000	2 U	NA	NA	NA	NA	5 U	NA	2.1 U	2.1 U	5 U	2 U	NA
N-Nitroso-di-n-propylamine	ug/L	- -	- -	360	- -	5	- -	9,890,000	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
N-Nitrosodiphenylamine	ug/L	- -	- -	35,000	- -	1,100	- -	35,100	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
Pentachlorophenol	ug/L	- -	- -	200	2.8	1	- -	1,850,000	20 U	NA	NA	NA	NA	5 U	NA	21 U	21 U	5 U	20 U	NA
Phenanthrene	ug/L	- -	- -	1,000	2	150	1,000	1,000	5.1 U	NA	NA	NA	NA	2 U	NA	5.3 U	5.3 U	2 U	5 U	NA
Phenol	ug/L	- -	- -	29,000,000	450	13,000	- -	82,800,000	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
Pyrene	ug/L	- -	- -	140	- -	140	140	135	5.1 U	NA	NA	NA	NA	5 U	NA	5.3 U	5.3 U	5 U	5 U	NA
PCB																				
Aroclor-1016	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	NA	NA	NA	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	NA
Aroclor-1221	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	NA	NA	NA	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	NA	NA	NA	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	NA	NA	NA	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	NA	NA	NA	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	NA	NA	NA	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	NA	NA	NA	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	NA
Total PCBs	ug/L	- -	- -	3.3	0.2	0.5	45	44.7	0.1 U	NA	NA	NA	NA	NA	NA	0.1 U	0.1 U	NA	0.1 U	NA
PCB-Dissolved																				
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	NA	NA	NA	NA	NA	0.1 U	0.1 U	NA	0.1 U	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	NA	NA	NA	NA	NA	0.1 U	0.1 U	NA	0.1 U	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	NA	NA	NA	NA	NA	0.1 U	0.1 U	NA	0.1 U	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	NA	NA	NA	NA	NA	0.1 U	0.1 U	NA	0.1 U	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	NA	NA	NA	NA	NA	0.1 U	0.1 U	NA	0.1 U	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	NA	NA	NA	NA	NA	0.1 U	0.1 U	NA	0.1 U	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	NA	NA	NA	NA	NA	0.1 U	0.1 U	NA	0.1 U	NA
Total PCBs (Dissolved)	ug/L	- -	- -	3.3	0.2	0.5	45	44.7	0.1 U	NA	NA	NA	NA	NA	NA	0.1 U	0.1 U	NA	0.1 U	NA
Inorganic																				
Antimony	ug/L	- -	- -	68,000	130	6	- -	- -	1.2 U	1.2 U	NA	NA	NA	NA	NA	NA	1.4 J	NA	1.2 U	1.2 U
Arsenic	ug/L	- -	- -	4,300	10	10	- -	- -	1.4 J	1 U	2 U	NA	NA	2 U	NA	NA	1.4 J	2 U	**85 J**	**91**
Barium	ug/L	- -	- -	14,000,000	1,308	2,000	- -	- -	140 J	120 J	NA	NA	NA	46	NA	NA	180 J	93	400 J	230 J
Beryllium	ug/L	- -	- -	290,000	32.3	4	- -	- -	0.37 J	0.4 UJ	NA	NA	NA	1 U	NA	NA	3.2 J	1 U	0.74 J	0.4 UJ
Cadmium	ug/L	- -	- -	190,000	4.8	5	- -	- -	0.11 J	0.072 J	NA	NA	NA	0.5	NA	NA	0.28 J	0.5 U	0.2 U	0.2 U

Table 1B
Summary of Groundwater Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: / Sample Depth(): / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	WS	36-101 09/28/01	36-101 06/13/02	36-101 11/02/06	36-101 04/23/07	36-101 06/27/07	36-101 10/11/12	36-101 10/18/12	36-121 09/27/01	38-120 09/27/01	38-120 10/10/12	RFI-36-02 10/04/01	RFI-36-02 06/13/02
Chromium Total	ug/L	- -	- -	460,000	11	100	- -	- -	0.82 J	0.7	NA	NA	NA	5 U	NA	NA	1.7	5 U	1	0.5 J
Cobalt	ug/L	- -	- -	2,400,000	100	100	- -	- -	2.1	1.3	NA	NA	NA	5 U	NA	NA	4.3	5 U	14	5.3
Copper	ug/L	- -	- -	7,400,000	21.6	4,000	- -	- -	2	4.8	NA	NA	NA	NA	NA	NA	2.8	NA	1.9	2.5
Cyanide (total)	ug/L	- -	- -	57,000	5.2	200	- -	- -	1.3 J	NA	NA	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	NA
Lead	ug/L	- -	- -	- -	30.9	4	- -	- -	0.38 J	0.13 J	NA	NA	NA	NA	NA	NA	0.56	NA	0.51	0.42 J
Manganese	ug/L	- -	- -	9,100,000	4,767	2,500	- -	- -	440 J	330 J	NA	NA	NA	500	NA	NA	570 J	671	1,200 J	1,400 J
Mercury	ug/L	- -	- -	56	0.0013	2	56	56	0.2 U	**0.126 J**	NA	NA	NA	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	ug/L	- -	- -	74,000,000	124.3	100	- -	- -	35	13	NA	NA	NA	12	NA	NA	25	7	**130**	92
Selenium	ug/L	- -	- -	970,000	5	50	- -	- -	1.4 U	1.4 U	NA	NA	NA	5 U	NA	NA	1.4 U	5 U	1.4 U	1.4 U
Silver	ug/L	- -	- -	1,500,000	0.2	98	- -	- -	0.4 U	0.4 UJ	NA	NA	NA	0.2 U	NA	NA	**0.5 J**	0.2 U	0.4 U	0.4 UJ
Thallium	ug/L	- -	- -	13,000	3.7	2	- -	- -	0.25 J	0.056 J	NA	NA	NA	2 U	NA	NA	1.9 J	2 U	0.2 U	0.2 U
Vanadium	ug/L	- -	- -	970,000	12	62	- -	- -	0.8 U	0.8 U	NA	NA	NA	NA	NA	NA	0.8 U	NA	0.8 U	0.8 U
Zinc	ug/L	- -	- -	110,000,000	282.7	5,000	- -	- -	30 J	13 J	NA	NA	NA	27	NA	NA	14 J	5 U	18 J	15 J
Inorganic-Dissolved																				
Antimony (Dissolved)	ug/L	- -	- -	68,000	130	6	- -	- -	1.2 U	NA	NA	NA	NA	NA	NA	1.2 U	1.2 U	NA	1.2 U	NA
Arsenic (Dissolved)	ug/L	- -	- -	4,300	10	10	- -	- -	1.7	NA	2 U	NA	NA	NA	NA	1 U	1 U	NA	**57**	NA
Barium (Dissolved)	ug/L	- -	- -	14,000,000	1,308	2,000	- -	- -	130	NA	NA	NA	NA	NA	NA	64	130	NA	R	NA
Beryllium (Dissolved)	ug/L	- -	- -	290,000	32.3	4	- -	- -	0.4 U	NA	NA	NA	NA	NA	NA	0.4 U	0.4 U	NA	0.4 UJ	NA
Cadmium (Dissolved)	ug/L	- -	- -	190,000	4.8	5	- -	- -	0.2 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	NA	0.2 U	NA
Chromium Total (Dissolved)	ug/L	- -	- -	460,000	11	100	- -	- -	0.6 U	NA	NA	NA	NA	NA	NA	0.72	0.6 U	NA	0.6 UJ	NA
Cobalt (Dissolved)	ug/L	- -	- -	2,400,000	100	100	- -	- -	1.8	NA	NA	NA	NA	NA	NA	2.4	3.1	NA	8.4	NA
Copper (Dissolved)	ug/L	- -	- -	7,400,000	21.6	4,000	- -	- -	2.5	NA	NA	NA	NA	NA	NA	0.81	0.85	NA	10 J	NA
Cyanide (dissolved)	ug/L	- -	- -	57,000	5.2	200	- -	- -	5 U	NA	NA	NA	NA	NA	NA	5 U	5 U	NA	5 U	NA
Lead (Dissolved)	ug/L	- -	- -	- -	30.9	4	- -	- -	0.4 U	NA	NA	NA	NA	NA	NA	0.4 U	0.4 U	NA	0.4 U	NA
Manganese (Dissolved)	ug/L	- -	- -	9,100,000	4,767	2,500	- -	- -	450 J	NA	NA	NA	NA	NA	NA	770	410	NA	780	NA
Mercury (Dissolved)	ug/L	- -	- -	56	0.0013	2	56	56	0.2 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	NA	0.2 U	NA
Nickel (Dissolved)	ug/L	- -	- -	74,000,000	124.3	100	- -	- -	30	NA	NA	NA	NA	NA	NA	13	24	NA	77	NA
Selenium (Dissolved)	ug/L	- -	- -	970,000	5	50	- -	- -	2.5 J	NA	NA	NA	NA	NA	NA	2.3 J	1.4 U	NA	1.4	NA
Silver (Dissolved)	ug/L	- -	- -	1,500,000	0.2	98	- -	- -	0.4 U	NA	NA	NA	NA	NA	NA	0.4 U	0.4 U	NA	0.4 UJ	NA
Thallium (Dissolved)	ug/L	- -	- -	13,000	3.7	2	- -	- -	0.2 U	NA	NA	NA	NA	NA	NA	0.2 U	0.89	NA	0.2 U	NA
Vanadium (Dissolved)	ug/L	- -	- -	970,000	12	62	- -	- -	0.8 U	NA	NA	NA	NA	NA	NA	0.8 U	0.8 U	NA	0.8 U	NA
Zinc (Dissolved)	ug/L	- -	- -	110,000,000	282.7	5,000	- -	- -	19 J	NA	NA	NA	NA	NA	NA	6 U	11	NA	19 J	NA

Note:
During the 2012 sampling event two of the groundwater samples were accidentally mis-named in the field. The sample collected from monitoring well 36-101 was mis-named 38-101 and sample RFI-36-02 was mis-named RFI-38-02. The well names have been corrected on this table.

Table 1B
Summary of Groundwater Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: / Sample Depth(): / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	WS	RFI-36-02 03/25/03	RFI-36-02 10/13/04	RFI-36-02 11/02/06	RFI-36-02 11/14/07	RFI-36-02 10/11/12	RFI-36-02 11/07/12	RFI-38-04 09/27/01	RFI-38-04 06/13/02	RFI-38-04 03/25/03	RFI-38-04 10/10/12	RFI-38-04 10/18/12
VOC																			
1,1,1,2-Tetrachloroethane	ug/L	- -	- -	30,000	- -	320	96,000	1,100,000	NA	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA
1,1,1-Trichloroethane	ug/L	- -	1,300,000	1,300,000	89	200	1,300,000	1,330,000	NA	0.4 J	0.2 J [0.1 J]	0.4 J	1 U	1 U	1 U	NA	NA	1 U	NA
1,1,2,2-Tetrachloroethane	ug/L	- -	- -	4,700	78	35	77,000	2,970,000	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 UJ	NA	NA	1 U	NA
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	- -	170,000	170,000	32	170,000	170,000	170,000	NA	30 U	30 U [30 U]	30 U	NA	30 U	1 U	NA	NA	NA	NA
1,1,2-Trichloroethane	ug/L	- -	- -	21,000	330	5	110,000	4,420,000	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
1,1-Dichloroethane	ug/L	380,000	- -	2,400,000	740	2,500	2,300,000	5,060,000	NA	4 J	1 [2]	1	1 U	1	1 U	NA	NA	1 U	NA
1,1-Dichloroethene	ug/L	97,000	140,000	11,000	130	7	1,300	2,250,000	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	5 U	NA	NA	NA	NA	5 U	NA
1,2,3-Trichloropropane	ug/L	- -	- -	84,000	- -	120	18,000	1,900,000	NA	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA
1,2,4-Trichlorobenzene	ug/L	- -	300,000	19,000	99	70	300,000	300,000	NA	2 U	2 U [2 U]	2 U	5 U	2 U	5 U	NA	NA	5 U	NA
1,2,4-Trimethylbenzene	ug/L	56,000	- -	56,000	17	2,900	56,000	55,890	NA	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA
1,2-Dibromo-3-chloropropane	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	1 U	1 U [1 U]	1 U	5 U	1 U	1 U	NA	NA	5 U	NA
1,2-Dibromoethane	ug/L	- -	- -	25	5.7	0.05	15,000	4,200,000	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
1,2-Dichlorobenzene	ug/L	- -	160,000	160,000	13	600	160,000	156,000	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
1,2-Dichloroethane	ug/L	2,500,000	- -	19,000	360	5	59,000	8,520,000	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
1,2-Dichloropropane	ug/L	550,000	2,800,000	16,000	230	5	36,000	2,800,000	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
1,3,5-Trimethylbenzene	ug/L	- -	- -	61,000	45	2,900	61,000	61,150	NA	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA
1,3-Dichlorobenzene	ug/L	- -	- -	2,000	28	19	41,000	111,000	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
1,4-Dichlorobenzene	ug/L	- -	- -	6,400	17	75	74,000	73,800	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
2-Butanone	ug/L	- -	240,000,000	240,000,000	2,200	38,000	240,000,000	240,000,000	NA	30 U	20 U [20 U]	20 U	25 U	20 U	25 U	NA	NA	25 U	NA
2-Hexanone	ug/L	- -	- -	5,200,000	- -	2,900	8,700,000	16,000,000	NA	50 U	50 U [50 U]	50 U	50 U	50 U	50 U	NA	NA	50 U	NA
2-Methylnaphthalene	ug/L	- -	- -	25,000	19	750	25,000	24,600	NA	NA	NA	NA	5 U	NA	NA	NA	NA	5 U	NA
4-Methyl-2-pentanone	ug/L	- -	20,000,000	13,000,000	- -	5,200	20,000,000	20,000,000	NA	1 U	10 U [10 U]	10 U	50 U	10 U	50 U	NA	NA	50 U	NA
Acetone	ug/L	15,000,000	1,000,000,000	31,000,000	1,700	2,100	1,000,000,000	1,000,000,000	NA	30 U	20 U [20 U]	20 U	50 U	20 U	25 U	NA	NA	50 U	NA
Acrylonitrile	ug/L	6,400,000	- -	14,000	2	11	190,000	75,000,000	NA	NA	NA	NA	2 U	NA	NA	NA	NA	2 U	NA
Benzene	ug/L	68,000	67,000	11,000	200	5	35,000	1,750,000	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
Bromobenzene	ug/L	- -	- -	12,000	- -	50	390,000	413,000	NA	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA
Bromochloromethane	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA
Bromodichloromethane	ug/L	- -	- -	14,000	- -	80	37,000	6,740,000	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
Bromoform	ug/L	- -	- -	140,000	- -	80	3,100,000	3,100,000	NA	1 UJ	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
Bromomethane	ug/L	- -	- -	70,000	35	29	9,000	14,500,000	NA	2 UJ	2 U [2 U]	2 U	5 U	2 U	1 U	NA	NA	5 U	NA
Carbon Disulfide	ug/L	13,000	- -	1,200,000	- -	2,300	550,000	1,190,000	NA	5 UJ	5 U [5 U]	5 U	5 U	5 U	5 U	NA	NA	5 U	NA
Carbon Tetrachloride	ug/L	- -	96,000	4,600	45	5	2,400	793,000	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
Chlorobenzene	ug/L	160,000	- -	86,000	25	100	470,000	472,000	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
Chloroethane	ug/L	110,000	- -	440,000	1,100	1,700	5,700,000	5,740,000	NA	1 UJ	1 U [1 U]	1 U	5 U	1 U	1 U	NA	NA	5 U	NA
Chloroform	ug/L	- -	- -	150,000	350	80	180,000	7,920,000	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
Chloromethane	ug/L	36,000	210,000	490,000	- -	1,100	45,000	6,340,000	NA	1 U	1 U [1 U]	1 U	5 U	1 U	1 U	NA	NA	5 U	NA
cis-1,2-Dichloroethene	ug/L	530,000	- -	200,000	620	70	210,000	3,500,000	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	1 U	1 UJ [1 UJ]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
Cyclohexane	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	1 U	1 U [1 U]	1 U	NA	1 U	5 U	NA	NA	NA	NA
Dibromochloromethane	ug/L	- -	- -	18,000	- -	80	110,000	2,600,000	NA	1 U	1 U [1 U]	1 U	5 U	1 U	1 U	NA	NA	5 U	NA
Dibromomethane	ug/L	- -	- -	530,000	- -	230	- -	11,000,000	NA	NA	NA	NA	5 U	NA	NA	NA	NA	5 U	NA
Dichlorodifluoromethane	ug/L	- -	- -	300,000	- -	4,800	300,000	300,000	NA	1 U	1 U [1 U]	1 UJ	5 U	1 U	1 U	NA	NA	5 U	NA
Diethyl ether	ug/L	650,000	61,000,000	35,000,000	- -	10,000	61,000,000	61,000,000	NA	NA	NA	NA	10 U	NA	NA	NA	NA	10 U	NA
Ethylbenzene	ug/L	43,000	170,000	170,000	18	700	170,000	169,000	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
Hexachloroethane	ug/L	- -	- -	1,900	6.7	21	50,000	50,000	NA	NA	NA	NA	5 U	NA	NA	NA	NA	5 U	NA
Iodomethane	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA
Isopropylbenzene	ug/L	29,000	- -	56,000	28	2,300	56,000	56,000	NA	1 U	1 U [1 U]	1 U	5 U	1 U	5 U	NA	NA	5 U	NA
m&p-Xylene	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	1 U	1 U [1 U]	1 U	2 U	2 U	2 U	NA	NA	2 U	NA
Methyl acetate	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	10 U	10 U [10 U]	10 U	NA	10 U	5 U	NA	NA	NA	NA
Methyl tert-butyl ether	ug/L	- -	- -	610,000	7,100	690	47,000,000	46,800,000	NA	5 U	5 U [5 U]	5 U	5 U	5 U	5 U	NA	NA	5 U	NA
Methylcyclohexane	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	20 U	20 U [20 U]	20 U	NA	20 U	1 U	NA	NA	NA	NA
Methylene Chloride	ug/L	- -	- -	220,000	1,500	5	1,400,000	17,000,000	NA	0.4 J	5 U [5 U]	5 U	5 U	5 U	5 U	NA	NA	5 U	NA
Naphthalene	ug/L	- -	31,000	31,000	11	1,500	31,000	31,000	NA	NA	NA	NA	5 U	5 U	NA	NA	NA	5 U	NA

Table 1B
Summary of Groundwater Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: / Sample Depth(): / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	WS	RFI-36-02 03/25/03	RFI-36-02 10/13/04	RFI-36-02 11/02/06	RFI-36-02 11/14/07	RFI-36-02 10/11/12	RFI-36-02 11/07/12	RFI-38-04 09/27/01	RFI-38-04 06/13/02	RFI-38-04 03/25/03	RFI-38-04 10/10/12	RFI-38-04 10/18/12
n-Butylbenzene	ug/L	- -	- -	5,900	- -	230	- -	- -	NA	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA
n-Propylbenzene	ug/L	- -	- -	15,000	- -	230	- -	- -	NA	NA	NA	NA	1 U	1 U	NA	NA	NA	1 U	NA
o-Xylene	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
p-Isopropyltoluene	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	5 U	NA	NA	NA	NA	5 U	NA
sec-Butylbenzene	ug/L	- -	- -	4,400	- -	230	- -	- -	NA	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA
Styrene	ug/L	140,000	310,000	9,700	80	100	310,000	310,000	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
tert-Butylbenzene	ug/L	- -	- -	8,900	- -	230	- -	- -	NA	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA
Tetrachloroethene	ug/L	- -	200,000	12,000	60	5	170,000	200,000	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
Tetrahydrofuran	ug/L	60,000	3,600,000	1,600,000	11,000	270	16,000,000	1,000,000,000	NA	NA	NA	NA	90 U	NA	NA	NA	NA	90 U	NA
Toluene	ug/L	61,000	- -	530,000	270	1,000	530,000	526,000	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
trans-1,2-Dichloroethene	ug/L	230,000	- -	220,000	1,500	100	200,000	6,300,000	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA
Trichloroethene	ug/L	- -	1,100,000	22,000	200	5	97,000	1,100,000	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
Trichlorofluoromethane	ug/L	- -	1,100,000	1,100,000	- -	7,300	1,100,000	1,100,000	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
Vinyl Chloride	ug/L	33,000	- -	1,000	13	2	13,000	2,760,000	NA	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	NA	NA	1 U	NA
SVOC																			
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	5.1 UJ	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	- -	300,000	19,000	99	70	300,000	300,000	NA	NA	NA	NA	5 U	NA	NA	NA	NA	5 U	NA
1,2-Dichlorobenzene	ug/L	- -	160,000	160,000	13	600	160,000	156,000	NA	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA
1,2-Diphenylhydrazine	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	5 U	NA	NA	NA	NA	5 U	NA
1,3-Dichlorobenzene	ug/L	- -	- -	2,000	28	19	41,000	111,000	NA	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA
1,4-Dichlorobenzene	ug/L	- -	- -	6,400	17	75	74,000	73,800	NA	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
2,4,5-Trichlorophenol	ug/L	- -	- -	170,000	- -	2,100	- -	1,200,000	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
2,4,6-Trichlorophenol	ug/L	- -	- -	10,000	5	470	- -	800,000	NA	NA	NA	NA	4 U	NA	4.1 U	NA	NA	4 U	NA
2,4-Dichlorophenol	ug/L	- -	- -	48,000	11	210	- -	4,500,000	NA	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA
2,4-Dimethylphenol	ug/L	- -	- -	520,000	380	1,000	- -	7,870,000	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	25 U	NA	21 U	NA	NA	25 U	NA
2,4-Dinitrotoluene	ug/L	- -	- -	8,600	- -	32	- -	270,000	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
2-Chloronaphthalene	ug/L	- -	- -	6,700	- -	5,200	- -	6,740	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
2-Chlorophenol	ug/L	- -	- -	94,000	18	130	1,100,000	22,000,000	NA	NA	NA	NA	10 U	NA	5.1 U	NA	NA	10 U	NA
2-Methylnaphthalene	ug/L	- -	- -	25,000	19	750	25,000	24,600	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	10 U	NA	5.1 U	NA	NA	10 U	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	25 U	NA	21 U	NA	NA	25 U	NA
2-Nitrophenol	ug/L	- -	- -	79,000	- -	58	- -	2,500,000	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
3&4-Methylphenol	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	20 U	NA	10 UJ	NA	NA	20 U	NA
3,3'-Dichlorobenzidine	ug/L	- -	- -	180	0.3	4.3	- -	3,110	NA	NA	NA	NA	5 U	NA	21 U	NA	NA	5 U	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	25 U	NA	21 U	NA	NA	25 U	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	20 U	NA	21 U	NA	NA	20 U	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
4-Chloro-3-Methylphenol	ug/L	- -	- -	79,000	7.4	420	- -	3,900,000	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
4-Chloroaniline	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	10 U	NA	21 U	NA	NA	10 U	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	25 U	NA	21 U	NA	NA	25 U	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	25 U	NA	21 U	NA	NA	25 U	NA
Acenaphthene	ug/L	- -	- -	4,200	38	3,800	4,200	4,240	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
Acenaphthylene	ug/L	- -	- -	3,900	- -	150	3,900	3,930	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
Acetophenone	ug/L	- -	- -	6,100,000	- -	4,400	6,100,000	6,100,000	NA	NA	NA	NA	NA	NA	5.1 UJ	NA	NA	NA	NA
Anthracene	ug/L	- -	- -	43	- -	43	43	43.4	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
Atrazine	ug/L	- -	- -	5,400	7.3	3	- -	70,000	NA	NA	NA	NA	NA	NA	5.1 UJ	NA	NA	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	5.1 UJ	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	- -	- -	9.4	- -	8.5	- -	9.4	NA	NA	NA	NA	1 U	NA	1 U	NA	NA	1 U	NA
Benzo(a)pyrene	ug/L	- -	- -	1	- -	5	- -	1.62	NA	NA	NA	NA	1 U	NA	2.1 U	NA	NA	1 U	NA
Benzo(b)fluoranthene	ug/L	- -	- -	1.5	- -	1.5	- -	1.5	NA	NA	NA	NA	1 U	NA	2.1 U	NA	NA	1 U	NA

Table 1B
Summary of Groundwater Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: / Sample Depth(): / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	WS	RFI-36-02 03/25/03	RFI-36-02 10/13/04	RFI-36-02 11/02/06	RFI-36-02 11/14/07	RFI-36-02 10/11/12	RFI-36-02 11/07/12	RFI-38-04 09/27/01	RFI-38-04 06/13/02	RFI-38-04 03/25/03	RFI-38-04 10/10/12	RFI-38-04 10/18/12
Benzo(g,h,i)perylene	ug/L	- -	- -	1	- -	1	- -	0.26	NA	NA	NA	NA	1 U	NA	5.1 U	NA	NA	1 U	NA
Benzo(k)fluoranthene	ug/L	- -	- -	1	- -	1	- -	0.8	NA	NA	NA	NA	1 U	NA	5.1 U	NA	NA	1 U	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000	17,000,000	5,700	1	8.3	210,000	17,200,000	NA	NA	NA	NA	5 U	NA	1 U	NA	NA	5 U	NA
bis(2-Ethylhexyl)phthalate	ug/L	- -	340	320	25	6	- -	340	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
Butylbenzylphthalate	ug/L	- -	- -	2,700	67	2,700	- -	2,690	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
Caprolactam	ug/L	- -	1,000,000,000	390,000,000	- -	17,000	- -	5,250,000,000	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA
Carbazole	ug/L	- -	- -	7,400	10	350	- -	7,480	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA
Chrysene	ug/L	- -	- -	1.6	- -	1.6	- -	1.6	NA	NA	NA	NA	1 U	NA	5.1 U	NA	NA	1 U	NA
Dibenzo(a,h)anthracene	ug/L	- -	- -	2	- -	2	- -	2.49	NA	NA	NA	NA	2 U	NA	2.1 U	NA	NA	2 U	NA
Dibenzofuran	ug/L	- -	- -	- -	4	- -	10,000	10,000	NA	NA	NA	NA	4 U	NA	4.1 U	NA	NA	4 U	NA
Diethylphthalate	ug/L	- -	- -	1,100,000	110	16,000	- -	1,080,000	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
Dimethylphthalate	ug/L	- -	- -	4,200,000	- -	210,000	- -	4,190,000	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
Di-n-Butylphthalate	ug/L	- -	- -	11,000	9.7	2,500	- -	11,200	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
Di-n-Octylphthalate	ug/L	- -	- -	400	- -	380	- -	3,000	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
Fluoranthene	ug/L	- -	- -	210	1.6	210	210	206	NA	NA	NA	NA	1 U	NA	2.1 U	NA	NA	1 U	NA
Fluorene	ug/L	- -	- -	2,000	12	2,000	2,000	1,980	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
Hexachlorobenzene	ug/L	- -	- -	4.6	0.2	1	3,000	6,200	NA	NA	NA	NA	5 U	NA	1 U	NA	NA	5 U	NA
Hexachlorobutadiene	ug/L	- -	- -	400	0.053	42	3,200	3,230	NA	NA	NA	NA	10 U	NA	5.1 U	NA	NA	10 U	NA
Hexachlorocyclopentadiene	ug/L	- -	- -	1,600	- -	50	420	1,800	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
Hexachloroethane	ug/L	- -	- -	1,900	6.7	21	50,000	50,000	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
Indeno(1,2,3-cd)pyrene	ug/L	- -	- -	2	- -	2	- -	0.022	NA	NA	NA	NA	2 U	NA	2.1 U	NA	NA	2 U	NA
Isophorone	ug/L	- -	12,000,000	990,000	1,300	3,100	- -	12,000,000	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
Methylphenols, Total	ug/L	- -	- -	810,000	30	1,000	- -	28,000,000	NA	NA	NA	NA	NA	NA	5.1 U	NA	NA	NA	NA
Naphthalene	ug/L	- -	31,000	31,000	11	1,500	31,000	31,000	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
Nitrobenzene	ug/L	- -	- -	11,000	180	9.6	550,000	2,090,000	NA	NA	NA	NA	5 U	NA	2.1 U	NA	NA	5 U	NA
N-Nitroso-di-n-propylamine	ug/L	- -	- -	360	- -	5	- -	9,890,000	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
N-Nitrosodiphenylamine	ug/L	- -	- -	35,000	- -	1,100	- -	35,100	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
Pentachlorophenol	ug/L	- -	- -	200	2.8	1	- -	1,850,000	NA	NA	NA	NA	5 U	NA	21 U	NA	NA	5 U	NA
Phenanthrene	ug/L	- -	- -	1,000	2	150	1,000	1,000	NA	NA	NA	NA	2 U	NA	5.1 U	NA	NA	2 U	NA
Phenol	ug/L	- -	- -	29,000,000	450	13,000	- -	82,800,000	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
Pyrene	ug/L	- -	- -	140	- -	140	140	135	NA	NA	NA	NA	5 U	NA	5.1 U	NA	NA	5 U	NA
PCB																			
Aroclor-1016	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.1 U	NA	0.1 U	NA	NA	0.1 U	NA
Aroclor-1221	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.1 U	NA	0.1 U	NA	NA	0.1 U	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.1 U	NA	0.1 U	NA	NA	0.1 U	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.1 U	NA	0.1 U	NA	NA	0.1 U	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.1 U	NA	0.1 U	NA	NA	0.1 U	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.1 U	NA	0.1 U	NA	NA	0.1 U	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.1 U	NA	0.1 U	NA	NA	0.1 U	NA
Total PCBs	ug/L	- -	- -	3.3	0.2	0.5	45	44.7	NA	NA	NA	NA	NA	NA	0.1 U	NA	NA	NA	NA
PCB-Dissolved																			
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.1 U	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.1 U	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.1 U	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.1 U	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.1 U	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.1 U	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.1 U	NA	NA	NA	NA
Total PCBs (Dissolved)	ug/L	- -	- -	3.3	0.2	0.5	45	44.7	NA	NA	NA	NA	NA	NA	0.1 U	NA	NA	NA	NA
Inorganic																			
Antimony	ug/L	- -	- -	68,000	130	6	- -	- -	1.2 U	NA	NA	NA	NA	NA	1.2 U	1.2 U	1.2 U	NA	NA
Arsenic	ug/L	- -	- -	4,300	10	10	- -	- -	**19**	**13**	NA	NA	9	**22 [23]**	1.4 J	0.98 J	1 U	2 U	NA
Barium	ug/L	- -	- -	14,000,000	1,308	2,000	- -	- -	170 J	NA	NA	NA	352	NA	200 J	97 J	39 J	66	NA
Beryllium	ug/L	- -	- -	290,000	32.3	4	- -	- -	0.4 U	NA	NA	NA	1 U	NA	1.1 J	0.4 UJ	0.4 U	1 U	NA
Cadmium	ug/L	- -	- -	190,000	4.8	5	- -	- -	0.14 J	NA	NA	NA	0.5 U	NA	0.14 J	0.063 J	0.2 U	0.5 U	NA

Table 1B
Summary of Groundwater Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: / Sample Depth(): / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	WS	RFI-36-02 03/25/03	RFI-36-02 10/13/04	RFI-36-02 11/02/06	RFI-36-02 11/14/07	RFI-36-02 10/11/12	RFI-36-02 11/07/12	RFI-38-04 09/27/01	RFI-38-04 06/13/02	RFI-38-04 03/25/03	RFI-38-04 10/10/12	RFI-38-04 10/18/12
Chromium Total	ug/L	- -	- -	460,000	11	100	- -	- -	0.43 J	NA	NA	NA	5 U	NA	1.4	1.1	1.7	5 U	NA
Cobalt	ug/L	- -	- -	2,400,000	100	100	- -	- -	12	NA	NA	NA	5 U	NA	2.7	1.6	0.42	5 U	NA
Copper	ug/L	- -	- -	7,400,000	21.6	4,000	- -	- -	3.1	NA	NA	NA	NA	NA	2.3	5.8	2.1	NA	NA
Cyanide (total)	ug/L	- -	- -	57,000	5.2	200	- -	- -	5 U	NA	NA	NA	5 U	NA	2.9 J	NA	5 U	5 U	5 U [5 U]
Lead	ug/L	- -	- -	- -	30.9	4	- -	- -	1.3	NA	NA	NA	NA	NA	0.44	1 J	0.4 U	NA	NA
Manganese	ug/L	- -	- -	9,100,000	4,767	2,500	- -	- -	640	NA	NA	NA	1,070	NA	880 J	490	240	19	NA
Mercury	ug/L	- -	- -	56	0.0013	2	56	56	0.2 U	NA	NA	NA	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	NA
Nickel	ug/L	- -	- -	74,000,000	124.3	100	- -	- -	66	20	NA	NA	52	NA	21	12	3.9	5 U	NA
Selenium	ug/L	- -	- -	970,000	5	50	- -	- -	1.6 U	NA	NA	NA	5 U	NA	1.4 U	1.4 U	1.6 U	5 U	NA
Silver	ug/L	- -	- -	1,500,000	0.2	98	- -	- -	0.4 U	NA	NA	NA	0.2 U	NA	0.4 U	0.4 UJ	0.4 U	0.2 U	NA
Thallium	ug/L	- -	- -	13,000	3.7	2	- -	- -	0.2 U	NA	NA	NA	2 U	NA	0.24 J	0.045 J	0.068 J	2 U	NA
Vanadium	ug/L	- -	- -	970,000	12	62	- -	- -	0.8 U	NA	NA	NA	NA	NA	0.8 U	0.75 J	0.8 U	NA	NA
Zinc	ug/L	- -	- -	110,000,000	282.7	5,000	- -	- -	23 U	NA	NA	NA	5 U	NA	12 J	14 J	6.8 U	5 U	NA
Inorganic-Dissolved																			
Antimony (Dissolved)	ug/L	- -	- -	68,000	130	6	- -	- -	NA	NA	NA	NA	NA	NA	1.2 U	1.2 U	NA	NA	NA
Arsenic (Dissolved)	ug/L	- -	- -	4,300	10	10	- -	- -	NA	NA	NA	NA	NA	NA	1 U	3.3	NA	NA	NA
Barium (Dissolved)	ug/L	- -	- -	14,000,000	1,308	2,000	- -	- -	NA	NA	NA	NA	NA	NA	150	140	NA	NA	NA
Beryllium (Dissolved)	ug/L	- -	- -	290,000	32.3	4	- -	- -	NA	NA	NA	NA	NA	NA	0.4 U	0.4 U	NA	NA	NA
Cadmium (Dissolved)	ug/L	- -	- -	190,000	4.8	5	- -	- -	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	NA	NA	NA
Chromium Total (Dissolved)	ug/L	- -	- -	460,000	11	100	- -	- -	NA	NA	NA	NA	NA	NA	0.75 J	4.9	NA	NA	NA
Cobalt (Dissolved)	ug/L	- -	- -	2,400,000	100	100	- -	- -	NA	NA	NA	NA	NA	NA	1.9	3.1	NA	NA	NA
Copper (Dissolved)	ug/L	- -	- -	7,400,000	21.6	4,000	- -	- -	NA	NA	NA	NA	NA	NA	1.3	15 U	NA	NA	NA
Cyanide (dissolved)	ug/L	- -	- -	57,000	5.2	200	- -	- -	NA	NA	NA	NA	NA	NA	2.9 J	NA	NA	NA	NA
Lead (Dissolved)	ug/L	- -	- -	- -	30.9	4	- -	- -	NA	NA	NA	NA	NA	NA	0.4 U	**6.5**	NA	NA	NA
Manganese (Dissolved)	ug/L	- -	- -	9,100,000	4,767	2,500	- -	- -	NA	NA	NA	NA	NA	NA	770 J	1,700 J	NA	NA	NA
Mercury (Dissolved)	ug/L	- -	- -	56	0.0013	2	56	56	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	NA	NA	NA
Nickel (Dissolved)	ug/L	- -	- -	74,000,000	124.3	100	- -	- -	NA	NA	NA	NA	NA	NA	15	17	NA	NA	NA
Selenium (Dissolved)	ug/L	- -	- -	970,000	5	50	- -	- -	NA	NA	NA	NA	NA	NA	1.8 J	1.4 U	NA	NA	NA
Silver (Dissolved)	ug/L	- -	- -	1,500,000	0.2	98	- -	- -	NA	NA	NA	NA	NA	NA	0.4 U	0.4 UJ	NA	NA	NA
Thallium (Dissolved)	ug/L	- -	- -	13,000	3.7	2	- -	- -	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	NA	NA	NA
Vanadium (Dissolved)	ug/L	- -	- -	970,000	12	62	- -	- -	NA	NA	NA	NA	NA	NA	0.8 U	4.5	NA	NA	NA
Zinc (Dissolved)	ug/L	- -	- -	110,000,000	282.7	5,000	- -	- -	NA	NA	NA	NA	NA	NA	6.3 J	37 J	NA	NA	NA

Note:
During the 2012 sampling event two of the groundwater samples were accidentally mis-named in the field. The sample collected from monitoring well 36-101 was mis-named 38-101 and sample RFI-36-02 was mis-named RFI-38-02. The well names have been corrected on this table.

Table 1B
Summary of Groundwater Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(): Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	WS	RFI-38-05 09/28/01	RFI-38-06 09/28/01	RFI-38-06 02/21/02	RFI-38-06 06/13/02	RFI-38-06 03/25/03	RFI-38-06 10/10/12
VOC														
1,1,1,2-Tetrachloroethane	ug/L	- -	- -	30,000	- -	320	96,000	1,100,000	NA	NA	NA	NA	NA	1 U [1 U]
1,1,1-Trichloroethane	ug/L	- -	1,300,000	1,300,000	89	200	1,300,000	1,330,000	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
1,1,2,2-Tetrachloroethane	ug/L	- -	- -	4,700	78	35	77,000	2,970,000	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	- -	170,000	170,000	32	170,000	170,000	170,000	1 U	1 U [1 U]	NA	NA	NA	NA
1,1,2-Trichloroethane	ug/L	- -	- -	21,000	330	5	110,000	4,420,000	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
1,1-Dichloroethane	ug/L	380,000	- -	2,400,000	740	2,500	2,300,000	5,060,000	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
1,1-Dichloroethene	ug/L	97,000	140,000	11,000	130	7	1,300	2,250,000	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	5 U [5 U]
1,2,3-Trichloropropane	ug/L	- -	- -	84,000	- -	120	18,000	1,900,000	NA	NA	NA	NA	NA	1 U [1 U]
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	1 U [1 U]
1,2,4-Trichlorobenzene	ug/L	- -	300,000	19,000	99	70	300,000	300,000	5 U	5 U [5 U]	NA	NA	NA	5 U [5 U]
1,2,4-Trimethylbenzene	ug/L	56,000	- -	56,000	17	2,900	56,000	55,890	NA	NA	NA	NA	NA	1 U [1 U]
1,2-Dibromo-3-chloropropane	ug/L	- -	- -	- -	- -	- -	- -	- -	1 U	1 U [1 U]	NA	NA	NA	5 U [5 U]
1,2-Dibromoethane	ug/L	- -	- -	25	5.7	0.05	15,000	4,200,000	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
1,2-Dichlorobenzene	ug/L	- -	160,000	160,000	13	600	160,000	156,000	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
1,2-Dichloroethane	ug/L	2,500,000	- -	19,000	360	5	59,000	8,520,000	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
1,2-Dichloropropane	ug/L	550,000	2,800,000	16,000	230	5	36,000	2,800,000	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
1,3,5-Trimethylbenzene	ug/L	- -	- -	61,000	45	2,900	61,000	61,150	NA	NA	NA	NA	NA	1 U [1 U]
1,3-Dichlorobenzene	ug/L	- -	- -	2,000	28	19	41,000	111,000	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
1,4-Dichlorobenzene	ug/L	- -	- -	6,400	17	75	74,000	73,800	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
2-Butanone	ug/L	- -	240,000,000	240,000,000	2,200	38,000	240,000,000	240,000,000	25 U	25 U [25 U]	NA	NA	NA	25 U [25 U]
2-Hexanone	ug/L	- -	- -	5,200,000	- -	2,900	8,700,000	16,000,000	50 U	50 U [50 U]	NA	NA	NA	50 U [50 U]
2-Methylnaphthalene	ug/L	- -	- -	25,000	19	750	25,000	24,600	NA	NA	NA	NA	NA	5 U [5 U]
4-Methyl-2-pentanone	ug/L	- -	20,000,000	13,000,000	- -	5,200	20,000,000	20,000,000	50 U	50 U [50 U]	NA	NA	NA	50 U [50 U]
Acetone	ug/L	15,000,000	1,000,000,000	31,000,000	1,700	2,100	1,000,000,000	1,000,000,000	25 U	25 U [25 U]	NA	NA	NA	50 U [50 U]
Acrylonitrile	ug/L	6,400,000	- -	14,000	2	11	190,000	75,000,000	NA	NA	NA	NA	NA	2 U [2 U]
Benzene	ug/L	68,000	67,000	11,000	200	5	35,000	1,750,000	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
Bromobenzene	ug/L	- -	- -	12,000	- -	50	390,000	413,000	NA	NA	NA	NA	NA	1 U [1 U]
Bromochloromethane	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	1 U [1 U]
Bromodichloromethane	ug/L	- -	- -	14,000	- -	80	37,000	6,740,000	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
Bromoform	ug/L	- -	- -	140,000	- -	80	3,100,000	3,100,000	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
Bromomethane	ug/L	- -	- -	70,000	35	29	9,000	14,500,000	1 U	1 U [1 U]	NA	NA	NA	5 U [5 U]
Carbon Disulfide	ug/L	13,000	- -	1,200,000	- -	2,300	550,000	1,190,000	5 U	5 U [5 U]	NA	NA	NA	5 U [5 U]
Carbon Tetrachloride	ug/L	- -	96,000	4,600	45	5	2,400	793,000	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
Chlorobenzene	ug/L	160,000	- -	86,000	25	100	470,000	472,000	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
Chloroethane	ug/L	110,000	- -	440,000	1,100	1,700	5,700,000	5,740,000	1 U	1 U [1 U]	NA	NA	NA	5 U [5 U]
Chloroform	ug/L	- -	- -	150,000	350	80	180,000	7,920,000	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
Chloromethane	ug/L	36,000	210,000	490,000	- -	1,100	45,000	6,340,000	1 U	1 U [1 U]	NA	NA	NA	5 U [5 U]
cis-1,2-Dichloroethene	ug/L	530,000	- -	200,000	620	70	210,000	3,500,000	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	- -	- -	- -	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
Cyclohexane	ug/L	- -	- -	- -	- -	- -	- -	- -	5 U	5 U [5 U]	NA	NA	NA	NA
Dibromochloromethane	ug/L	- -	- -	18,000	- -	80	110,000	2,600,000	1 U	1 U [1 U]	NA	NA	NA	5 U [5 U]
Dibromomethane	ug/L	- -	- -	530,000	- -	230	- -	11,000,000	NA	NA	NA	NA	NA	5 U [5 U]
Dichlorodifluoromethane	ug/L	- -	- -	300,000	- -	4,800	300,000	300,000	1 U	1 U [1 U]	NA	NA	NA	5 U [5 U]
Diethyl ether	ug/L	650,000	61,000,000	35,000,000	- -	10,000	61,000,000	61,000,000	NA	NA	NA	NA	NA	10 U [10 U]
Ethylbenzene	ug/L	43,000	170,000	170,000	18	700	170,000	169,000	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
Hexachloroethane	ug/L	- -	- -	1,900	6.7	21	50,000	50,000	NA	NA	NA	NA	NA	5 U [5 U]
Iodomethane	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	1 U [1 U]
Isopropylbenzene	ug/L	29,000	- -	56,000	28	2,300	56,000	56,000	5 U	5 U [5 U]	NA	NA	NA	5 U [5 U]
m&p-Xylene	ug/L	- -	- -	- -	- -	- -	- -	- -	2 U	2 U [2 U]	NA	NA	NA	2 U [2 U]
Methyl acetate	ug/L	- -	- -	- -	- -	- -	- -	- -	5 U	5 U [5 U]	NA	NA	NA	NA
Methyl tert-butyl ether	ug/L	- -	- -	610,000	7,100	690	47,000,000	46,800,000	5 U	5 U [5 U]	NA	NA	NA	5 U [5 U]
Methylcyclohexane	ug/L	- -	- -	- -	- -	- -	- -	- -	1 U	1 U [1 U]	NA	NA	NA	NA
Methylene Chloride	ug/L	- -	- -	220,000	1,500	5	1,400,000	17,000,000	5 U	5 U [5 U]	NA	NA	NA	5 U [5 U]
Naphthalene	ug/L	- -	31,000	31,000	11	1,500	31,000	31,000	NA	NA	NA	NA	NA	5 U [5 U]

Table 1B
Summary of Groundwater Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(): Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	WS	RFI-38-05 09/28/01	RFI-38-06 09/28/01	RFI-38-06 02/21/02	RFI-38-06 06/13/02	RFI-38-06 03/25/03	RFI-38-06 10/10/12
n-Butylbenzene	ug/L	- -	- -	5,900	- -	230	- -	- -	NA	NA	NA	NA	NA	1 U [1 U]
n-Propylbenzene	ug/L	- -	- -	15,000	- -	230	- -	- -	NA	NA	NA	NA	NA	1 U [1 U]
o-Xylene	ug/L	- -	- -	- -	- -	- -	- -	- -	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
p-Isopropyltoluene	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	5 U [5 U]
sec-Butylbenzene	ug/L	- -	- -	4,400	- -	230	- -	- -	NA	NA	NA	NA	NA	1 U [1 U]
Styrene	ug/L	140,000	310,000	9,700	80	100	310,000	310,000	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
tert-Butylbenzene	ug/L	- -	- -	8,900	- -	230	- -	- -	NA	NA	NA	NA	NA	1 U [1 U]
Tetrachloroethene	ug/L	- -	200,000	12,000	60	5	170,000	200,000	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
Tetrahydrofuran	ug/L	60,000	3,600,000	1,600,000	11,000	270	16,000,000	1,000,000,000	NA	NA	NA	NA	NA	90 U [90 U]
Toluene	ug/L	61,000	- -	530,000	270	1,000	530,000	526,000	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
trans-1,2-Dichloroethene	ug/L	230,000	- -	220,000	1,500	100	200,000	6,300,000	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	- -	- -	- -	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	1 U [1 U]
Trichloroethene	ug/L	- -	1,100,000	22,000	200	5	97,000	1,100,000	1 U	2.7 [2.4]	NA	NA	NA	**7 [8]**
Trichlorofluoromethane	ug/L	- -	1,100,000	1,100,000	- -	7,300	1,100,000	1,100,000	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
Vinyl Chloride	ug/L	33,000	- -	1,000	13	2	13,000	2,760,000	1 U	1 U [1 U]	NA	NA	NA	1 U [1 U]
SVOC														
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	- -	- -	- -	5.3 U	5.3 U [5 U]	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	- -	300,000	19,000	99	70	300,000	300,000	NA	NA	NA	NA	NA	5 U [5 U]
1,2-Dichlorobenzene	ug/L	- -	160,000	160,000	13	600	160,000	156,000	NA	NA	NA	NA	NA	1 U [1 U]
1,2-Diphenylhydrazine	ug/L	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	5 U [5 U]
1,3-Dichlorobenzene	ug/L	- -	- -	2,000	28	19	41,000	111,000	NA	NA	NA	NA	NA	1 U [1 U]
1,4-Dichlorobenzene	ug/L	- -	- -	6,400	17	75	74,000	73,800	NA	NA	NA	NA	NA	1 U [1 U]
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	- -	- -	- -	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
2,4,5-Trichlorophenol	ug/L	- -	- -	170,000	- -	2,100	- -	1,200,000	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
2,4,6-Trichlorophenol	ug/L	- -	- -	10,000	5	470	- -	800,000	4.2 U	4.2 U [4 U]	NA	NA	NA	4 U [4 U]
2,4-Dichlorophenol	ug/L	- -	- -	48,000	11	210	- -	4,500,000	11 U	11 U [10 U]	NA	NA	NA	10 U [10 U]
2,4-Dimethylphenol	ug/L	- -	- -	520,000	380	1,000	- -	7,870,000	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	- -	- -	- -	21 U	21 U [20 U]	NA	NA	NA	25 U [25 U]
2,4-Dinitrotoluene	ug/L	- -	- -	8,600	- -	32	- -	270,000	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	- -	- -	- -	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
2-Chloronaphthalene	ug/L	- -	- -	6,700	- -	5,200	- -	6,740	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
2-Chlorophenol	ug/L	- -	- -	94,000	18	130	1,100,000	22,000,000	5.3 U	5.3 U [5 U]	NA	NA	NA	10 U [10 U]
2-Methylnaphthalene	ug/L	- -	- -	25,000	19	750	25,000	24,600	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
2-Methylphenol	ug/L	- -	- -	- -	- -	- -	- -	- -	5.3 U	5.3 U [5 U]	NA	NA	NA	10 U [10 U]
2-Nitroaniline	ug/L	- -	- -	- -	- -	- -	- -	- -	21 U	21 U [20 U]	NA	NA	NA	25 U [25 U]
2-Nitrophenol	ug/L	- -	- -	79,000	- -	58	- -	2,500,000	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
3&4-Methylphenol	ug/L	- -	- -	- -	- -	- -	- -	- -	11 UJ	11 UJ [10 UJ]	NA	NA	NA	20 U [20 U]
3,3'-Dichlorobenzidine	ug/L	- -	- -	180	0.3	4.3	- -	3,110	21 U	21 U [20 U]	NA	NA	NA	5 U [5 U]
3-Nitroaniline	ug/L	- -	- -	- -	- -	- -	- -	- -	21 U	21 U [20 U]	NA	NA	NA	25 U [25 U]
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	- -	- -	- -	21 U	21 U [20 U]	NA	NA	NA	20 U [20 U]
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	- -	- -	- -	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
4-Chloro-3-Methylphenol	ug/L	- -	- -	79,000	7.4	420	- -	3,900,000	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
4-Chloroaniline	ug/L	- -	- -	- -	- -	- -	- -	- -	21 U	21 U [20 U]	NA	NA	NA	10 U [10 U]
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	- -	- -	- -	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
4-Nitroaniline	ug/L	- -	- -	- -	- -	- -	- -	- -	21 UJ	21 UJ [20 UJ]	NA	NA	NA	25 U [25 U]
4-Nitrophenol	ug/L	- -	- -	- -	- -	- -	- -	- -	21 U	21 U [20 U]	NA	NA	NA	25 U [25 U]
Acenaphthene	ug/L	- -	- -	4,200	38	3,800	4,200	4,240	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
Acenaphthylene	ug/L	- -	- -	3,900	- -	150	3,900	3,930	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
Acetophenone	ug/L	- -	- -	6,100,000	- -	4,400	6,100,000	6,100,000	5.3 U	5.3 UJ [5 U]	NA	NA	NA	NA
Anthracene	ug/L	- -	- -	43	- -	43	43	43.4	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
Atrazine	ug/L	- -	- -	5,400	7.3	3	- -	70,000	5.3 U	5.3 UJ [5 U]	NA	NA	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	- -	- -	- -	5.3 U	5.3 U [5 U]	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	- -	- -	9.4	- -	8.5	- -	9.4	1.1 U	1.1 U [1 U]	NA	NA	NA	1 U [1 U]
Benzo(a)pyrene	ug/L	- -	- -	1	- -	5	- -	1.62	2.1 U	2.1 U [2 U]	NA	NA	NA	1 U [1 U]
Benzo(b)fluoranthene	ug/L	- -	- -	1.5	- -	1.5	- -	1.5	2.1 U	2.1 U [2 U]	NA	NA	NA	1 U [1 U]

Table 1B
Summary of Groundwater Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(): Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	WS	RFI-38-05 09/28/01	RFI-38-06 09/28/01	RFI-38-06 02/21/02	RFI-38-06 06/13/02	RFI-38-06 03/25/03	RFI-38-06 10/10/12
Benzo(g,h,i)perylene	ug/L	- -	- -	1	- -	1	- -	0.26	5.3 U	5.3 U [5 U]	NA	NA	NA	1 U [1 U]
Benzo(k)fluoranthene	ug/L	- -	- -	1	- -	1	- -	0.8	5.3 U	5.3 U [5 U]	NA	NA	NA	1 U [1 U]
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	- -	- -	- -	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
bis(2-Chloroethyl)ether	ug/L	17,000,000	17,000,000	5,700	1	8.3	210,000	17,200,000	1.1 U	1.1 U [1 U]	NA	NA	NA	5 U [5 U]
bis(2-Ethylhexyl)phthalate	ug/L	- -	340	320	25	6	- -	340	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
Butylbenzylphthalate	ug/L	- -	- -	2,700	67	2,700	- -	2,690	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
Caprolactam	ug/L	- -	1,000,000,000	390,000,000	- -	17,000	- -	5,250,000,000	11 U	11 U [10 U]	NA	NA	NA	NA
Carbazole	ug/L	- -	- -	7,400	10	350	- -	7,480	11 UJ	11 UJ [10 UJ]	NA	NA	NA	NA
Chrysene	ug/L	- -	- -	1.6	- -	1.6	- -	1.6	5.3 U	5.3 U [5 U]	NA	NA	NA	1 U [1 U]
Dibenzo(a,h)anthracene	ug/L	- -	- -	2	- -	2	- -	2.49	2.1 U	2.1 U [2 U]	NA	NA	NA	2 U [2 U]
Dibenzofuran	ug/L	- -	- -	- -	4	- -	10,000	10,000	4.2 U	4.2 U [4 U]	NA	NA	NA	4 U [4 U]
Diethylphthalate	ug/L	- -	- -	1,100,000	110	16,000	- -	1,080,000	1.23 J	1.6 J [5 U]	NA	NA	NA	5 U [5 U]
Dimethylphthalate	ug/L	- -	- -	4,200,000	- -	210,000	- -	4,190,000	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
Di-n-Butylphthalate	ug/L	- -	- -	11,000	9.7	2,500	- -	11,200	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
Di-n-Octylphthalate	ug/L	- -	- -	400	- -	380	- -	3,000	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
Fluoranthene	ug/L	- -	- -	210	1.6	210	210	206	2.1 U	2.1 U [2 U]	NA	NA	NA	1 U [1 U]
Fluorene	ug/L	- -	- -	2,000	12	2,000	2,000	1,980	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
Hexachlorobenzene	ug/L	- -	- -	4.6	0.2	1	3,000	6,200	1.1 U	1.1 U [1 U]	NA	NA	NA	5 U [5 U]
Hexachlorobutadiene	ug/L	- -	- -	400	0.053	42	3,200	3,230	5.3 U	5.3 U [5 U]	NA	NA	NA	10 U [10 U]
Hexachlorocyclopentadiene	ug/L	- -	- -	1,600	- -	50	420	1,800	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
Hexachloroethane	ug/L	- -	- -	1,900	6.7	21	50,000	50,000	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
Indeno(1,2,3-cd)pyrene	ug/L	- -	- -	2	- -	2	- -	0.022	2.1 U	2.1 U [2 U]	NA	NA	NA	2 U [2 U]
Isophorone	ug/L	- -	12,000,000	990,000	1,300	3,100	- -	12,000,000	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
Methylphenols, Total	ug/L	- -	- -	810,000	30	1,000	- -	28,000,000	5.3 U	5.3 U [5 U]	NA	NA	NA	NA
Naphthalene	ug/L	- -	31,000	31,000	11	1,500	31,000	31,000	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
Nitrobenzene	ug/L	- -	- -	11,000	180	9.6	550,000	2,090,000	2.1 U	2.1 U [2 U]	NA	NA	NA	5 U [5 U]
N-Nitroso-di-n-propylamine	ug/L	- -	- -	360	- -	5	- -	9,890,000	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
N-Nitrosodiphenylamine	ug/L	- -	- -	35,000	- -	1,100	- -	35,100	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
Pentachlorophenol	ug/L	- -	- -	200	2.8	1	- -	1,850,000	21 U	21 U [20 U]	NA	NA	NA	5 U [5 U]
Phenanthrene	ug/L	- -	- -	1,000	2	150	1,000	1,000	5.3 U	5.3 U [5 U]	NA	NA	NA	2 U [2 U]
Phenol	ug/L	- -	- -	29,000,000	450	13,000	- -	82,800,000	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
Pyrene	ug/L	- -	- -	140	- -	140	140	135	5.3 U	5.3 U [5 U]	NA	NA	NA	5 U [5 U]
PCB														
Aroclor-1016	ug/L	- -	- -	- -	- -	- -	- -	- -	0.11 U	0.11 U [0.11 U]	NA	NA	NA	0.1 U [0.1 U]
Aroclor-1221	ug/L	- -	- -	- -	- -	- -	- -	- -	0.11 U	0.11 U [0.11 U]	NA	NA	NA	0.1 U [0.1 U]
Aroclor-1232	ug/L	- -	- -	- -	- -	- -	- -	- -	0.11 U	0.11 U [0.11 U]	NA	NA	NA	0.1 U [0.1 U]
Aroclor-1242	ug/L	- -	- -	- -	- -	- -	- -	- -	0.11 U	0.11 U [0.11 U]	NA	NA	NA	0.1 U [0.1 U]
Aroclor-1248	ug/L	- -	- -	- -	- -	- -	- -	- -	0.11 U	0.11 U [0.11 U]	NA	NA	NA	0.1 U [0.1 U]
Aroclor-1254	ug/L	- -	- -	- -	- -	- -	- -	- -	0.11 U	0.11 U [0.11 U]	NA	NA	NA	0.1 U [0.1 U]
Aroclor-1260	ug/L	- -	- -	- -	- -	- -	- -	- -	0.11 U	0.11 U [0.11 U]	NA	NA	NA	0.1 U [0.1 U]
Total PCBs	ug/L	- -	- -	3.3	0.2	0.5	45	44.7	0.11 U	0.11 U [0.11 U]	NA	NA	NA	NA
PCB-Dissolved														
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.11 U [0.1 U]	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.11 U [0.1 U]	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.11 U [0.1 U]	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.11 U [0.1 U]	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.11 U [0.1 U]	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.11 U [0.1 U]	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.11 U [0.1 U]	NA	NA	NA	NA
Total PCBs (Dissolved)	ug/L	- -	- -	3.3	0.2	0.5	45	44.7	0.1 U	0.11 U [0.1 U]	NA	NA	NA	NA
Inorganic														
Antimony	ug/L	- -	- -	68,000	130	6	- -	- -	1.2 U	1.2 U [1.2 U]	NA	1.2 U	0.36 J	NA
Arsenic	ug/L	- -	- -	4,300	10	10	- -	- -	2.2 J	7.2 J [9.8 J]	NA	2.7	1.5	2 U [2 U]
Barium	ug/L	- -	- -	14,000,000	1,308	2,000	- -	- -	160 J	150 J [140]	NA	83 J	98 J	70 [71]
Beryllium	ug/L	- -	- -	290,000	32.3	4	- -	- -	1.5 J	**1.5 J [34]**	NA	0.4 UJ	0.4 U	1 U [1 U]
Cadmium	ug/L	- -	- -	190,000	4.8	5	- -	- -	0.52 J	0.18 J [1.5 J]	NA	0.083 J	0.098 J	0.5 U [0.5 U]

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Flint, Michigan

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Chromium Total	ug/L	- -	- -	460,000	11	100	- -	- -	1.6	0.89 [3.2]	NA	0.22 J	0.38 J	5 U [5 U]
Cobalt	ug/L	- -	- -	2,400,000	100	100	- -	- -	2.3	7.5 [8.3]	NA	4.2	4.2	5 U [5 U]
Copper	ug/L	- -	- -	7,400,000	21.6	4,000	- -	- -	7.5	2 [8.3]	NA	3.1	2.8	NA
Cyanide (total)	ug/L	- -	- -	57,000	5.2	200	- -	- -	5 U	5 U [5 U]	NA	NA	5 U	5 U [5 U]
Lead	ug/L	- -	- -	- -	30.9	4	- -	- -	0.51	0.48 [0.7 J]	NA	0.093 J	0.22 J	NA
Manganese	ug/L	- -	- -	9,100,000	4,767	2,500	- -	- -	550 J	550 J [1,000]	NA	410	340	866 [886]
Mercury	ug/L	- -	- -	56	0.0013	2	56	56	0.2 U	0.2 U [0.2 U]	NA	0.2 U	0.2 U	0.2 U [0.2 U]
Nickel	ug/L	- -	- -	74,000,000	124.3	100	- -	- -	17	25 [30]	NA	13	15	11 [9]
Selenium	ug/L	- -	- -	970,000	5	50	- -	- -	1.6 J	1.4 U [2.3 J]	NA	1.4 U	1.6 U	5 U [5 U]
Silver	ug/L	- -	- -	1,500,000	0.2	98	- -	- -	0.4 U	**0.21 J [1.2 J]**	NA	0.4 UJ	0.4 U	0.2 U [0.2 U]
Thallium	ug/L	- -	- -	13,000	3.7	2	- -	- -	0.46 J	**3.8 J [4.9]**	NA	**2.2**	**2.6**	2 U [2 U]
Vanadium	ug/L	- -	- -	970,000	12	62	- -	- -	0.8 U	0.8 U [5.4 J]	NA	0.8 U	0.8 U	NA
Zinc	ug/L	- -	- -	110,000,000	282.7	5,000	- -	- -	110 J	11 J [23]	NA	7.9 J	13 U	6 [11]
Inorganic-Dissolved														
Antimony (Dissolved)	ug/L	- -	- -	68,000	130	6	- -	- -	1.2 U	1.2 U [1.2 U]	NA	NA	NA	NA
Arsenic (Dissolved)	ug/L	- -	- -	4,300	10	10	- -	- -	1 U	6.1 [6.2]	NA	NA	NA	NA
Barium (Dissolved)	ug/L	- -	- -	14,000,000	1,308	2,000	- -	- -	130	140 [130]	NA	NA	NA	NA
Beryllium (Dissolved)	ug/L	- -	- -	290,000	32.3	4	- -	- -	0.4 U	0.4 U [0.4 U]	NA	NA	NA	NA
Cadmium (Dissolved)	ug/L	- -	- -	190,000	4.8	5	- -	- -	0.6	0.2 U [0.2 U]	NA	NA	NA	NA
Chromium Total (Dissolved)	ug/L	- -	- -	460,000	11	100	- -	- -	0.74	0.6 U [0.6 U]	NA	NA	NA	NA
Cobalt (Dissolved)	ug/L	- -	- -	2,400,000	100	100	- -	- -	1.7	6.2 [6.4]	NA	NA	NA	NA
Copper (Dissolved)	ug/L	- -	- -	7,400,000	21.6	4,000	- -	- -	5.4	0.77 [0.73]	NA	NA	NA	NA
Cyanide (dissolved)	ug/L	- -	- -	57,000	5.2	200	- -	- -	5 U	5 U [5 U]	NA	NA	NA	NA
Lead (Dissolved)	ug/L	- -	- -	- -	30.9	4	- -	- -	0.4 U	0.4 U [0.4 U]	NA	NA	NA	NA
Manganese (Dissolved)	ug/L	- -	- -	9,100,000	4,767	2,500	- -	- -	520 J	550 J [520 J]	NA	NA	NA	NA
Mercury (Dissolved)	ug/L	- -	- -	56	0.0013	2	56	56	0.2 U	0.2 U [0.2 U]	NA	NA	NA	NA
Nickel (Dissolved)	ug/L	- -	- -	74,000,000	124.3	100	- -	- -	12	20 [21]	NA	NA	NA	NA
Selenium (Dissolved)	ug/L	- -	- -	970,000	5	50	- -	- -	1.4 U	2.1 [2.1 J]	NA	NA	NA	NA
Silver (Dissolved)	ug/L	- -	- -	1,500,000	0.2	98	- -	- -	0.4 U	0.4 U [0.4 U]	NA	NA	NA	NA
Thallium (Dissolved)	ug/L	- -	- -	13,000	3.7	2	- -	- -	0.2 U	**3.1 [3]**	**3.4**	NA	NA	NA
Vanadium (Dissolved)	ug/L	- -	- -	970,000	12	62	- -	- -	0.8 U	0.8 U [0.8 U]	NA	NA	NA	NA
Zinc (Dissolved)	ug/L	- -	- -	110,000,000	282.7	5,000	- -	- -	82 J	8.7 J [8.3 J]	NA	NA	NA	NA

Note:
During the 2012 sampling event two of the groundwater samples were accidentally mis-named in the field. The sample collected from monitoring well 36-101 was mis-named 38-101 and sample RFI-36-02 was mis-named RFI-38-02. The well names have been corrected on this table.

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-07 0.8 - 2 10/11/12	RFI-38-07 5 - 7 10/11/12	RFI-38-08 0.7 - 2 10/11/12	RFI-38-08 3 - 4 10/11/12	RFI-38-09 0.4 - 1.1 10/11/12	RFI-38-10 0.9 - 2 10/12/12	RFI-38-10 5 - 7 10/12/12	RFI-38-11 0.5 - 2 10/11/12	RFI-38-11 3.5 - 4.5 10/11/12
VOC																					
1,1,1,2-Tetrachloroethane	mg/kg	440	440 {(C)}	{ID}	440 {(C)}	6.4	530,000	33	330	210	120	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]	<0.1	<0.1	<0.1
1,1,1-Trichloroethane	mg/kg	460	460 {(C)}	1.8	460 {(C)}	4	29,000,000	460	31,000	15,000	4,500	{NA}	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]	<0.06	<0.07	<0.06
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6 {(X)}	240	0.7	68,000	23	34	34	34	{NA}	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]	<0.06	<0.07	<0.06
1,1,2-Trichloroethane	mg/kg	920	420	6.6 {(X)}	840	0.1	250,000	24	120	57	57	{NA}	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]	<0.06	<0.07	<0.06
1,1-Dichloroethane	mg/kg	890	890 {(C)}	15	890 {(C)}	50	15,000,000	430	14,000	6,000	2,500	{NA}	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]	<0.06	<0.07	<0.06
1,1-Dichloroethene	mg/kg	570	220	2.6	570 {(C)}	0.14	78,000	0.33	37	15	3.7	{NA}	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]	<0.06	<0.07	<0.06
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.42	<0.4	<0.46	<0.4	<0.46	<0.48 [<0.39]	<0.38	<0.44	<0.42
1,2,3-Trichloropropane	mg/kg	830	830 {(C)}	{NA}	830 {(C)}	2.4	8,800	7.5	12	11	11	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]	<0.1	<0.1	<0.1
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]	<0.1	<0.1	<0.1
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	1,100 {(C)}	34,000	34,000	34,000	{NA}	<0.42	<0.4	<0.46	<0.4	<0.46	<0.48 [<0.39]	<0.38	<0.44	<0.42
1,2,4-Trimethylbenzene	mg/kg	110	110 {(C)}	0.57	110 {(C)}	2.1	36,000,000	110 {(C)}	600,000	600,000	25,000	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]	<0.1	<0.1	<0.1
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.3	<0.3	<0.4	<0.3	<0.4	<0.4 [<0.3]	<0.3	<0.3	<0.3
1,2-Dibromoethane	mg/kg	890	0.5	0.11 {(X)}	0.43	0.02 {(M)}	18,000	3.6	9.8	5.8	5.8	{NA}	**<0.03 M**	<0.02 M	**<0.03 M**	<0.02 M	**<0.03 M**	**<0.03 M [<0.02 M]**	<0.02 M	**<0.03 M**	**<0.03 M**
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	210 {(C)}	55,000	46,000	46,000	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]	<0.1	<0.1	<0.1
1,2-Dichloroethane	mg/kg	1,200	380	7.2 {(X)}	420	0.1	150,000	11	74	33	21	{NA}	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]	<0.06	<0.07	<0.06
1,2-Dichloropropane	mg/kg	550	320	4.6 {(X)}	550 {(C)}	0.1	120,000	7.4	120	51	30	{NA}	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]	<0.06	<0.07	<0.06
1,3,5-Trimethylbenzene	mg/kg	94	94 {(C)}	1.1	94 {(C)}	1.8	36,000,000	94 {(C)}	460,000	460,000	19,000	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]	<0.1	<0.1	<0.1
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	48	110	94	94	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	100	340	260	260	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]	<0.1	<0.1	<0.1
2-Butanone	mg/kg	27,000	27,000 {(C)}	44	27,000 {(C,DD)}	760	29,000,000	27,000 {(C)}	36,000	35,000	35,000	{NA}	<0.95	<0.9	<1.1	<0.9	<1.1	<1.1 [<0.89]	<0.87	<1	<0.94
2-Hexanone	mg/kg	2,500	2,500 {(C)}	{ID}	2,500 {(C)}	58	1,200,000	1,800	1,500	1,300	1,300	{NA}	<3	<3	<4	<3	<4	<4 [<3]	<3	<3	<3
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	{NA}	<0.42	<0.4	<0.46	<0.4	<0.46	<0.48 [<0.39]	<0.38	<0.44	<0.42
4-Methyl-2-pentanone	mg/kg	2,700	2,700 {(C)}	{ID}	2,700 {(C)}	100	60,000,000	2,700 {(C)}	70,000	53,000	53,000	{NA}	<3	<3	<4	<3	<4	<4 [<3]	<3	<3	<3
Acetone	mg/kg	110,000	110,000 {(C)}	34	73,000	42	170,000,000	110,000 {(C)}	200,000	160,000	160,000	{NA}	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
Acrylonitrile	mg/kg	8,300	280	0.1 {(M)}	74	0.22	58,000	35	31	17	17	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]	<0.1	<0.1	<0.1
Benzene	mg/kg	400	220	4 {(X)}	400 {(C)}	0.1	470,000	8.4	230	99	45	{NA}	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]	<0.06	<0.07	<0.06
Bromobenzene	mg/kg	760	360	{NA}	760 {(C)}	1.5	240,000	580	540	540	540	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]	<0.1	<0.1	<0.1
Bromodichloromethane	mg/kg	1,500	280	{ID}	490	1.6 {(W)}	110,000	6.4	57	31	31	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]	<0.1	<0.1	<0.1
Bromoform	mg/kg	870	870 {(C)}	{ID}	870 {(C)}	1.6 {(W)}	3,600,000	770	3,100	3,100	3,100	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]	<0.1	<0.1	<0.1
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	1.6	140	57	13	{NA}	<0.3	<0.2	<0.3	<0.2	<0.3	<0.3 [<0.2]	<0.2	<0.3	<0.3
Carbon Disulfide	mg/kg	280	280 {(C)}	{ID}	280 {(C,DD)}	46	21,000,000	140	19,000	8,000	1,600	{NA}	<0.3	<0.3	<0.4	<0.3	<0.4	<0.4 [<0.3]	<0.3	<0.3	<0.3
Carbon Tetrachloride	mg/kg	390	92	0.9 {(X)}	390 {(C)}	0.1	170,000	0.99	79	34	12	{NA}	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]	<0.06	<0.07	<0.06
Chlorobenzene	mg/kg	260	260 {(C)}	0.5	260 {(C)}	2	2,100,000	220	2,100	1,100	920	{NA}	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]	<0.06	<0.07	<0.06
Chloroethane	mg/kg	950	950 {(C)}	22 {(X)}	950 {(C)}	34	290,000,000	950 {(C)}	280,000	120,000	36,000	{NA}	<0.3	<0.3	<0.4	<0.3	<0.4	<0.4 [<0.3]	<0.3	<0.3	<0.3
Chloroform	mg/kg	1,500	1,500 {(C)}	7	1,500 {(C)}	1.6 {(W)}	1,600,000	38	790	340	150	{NA}	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]	<0.06	<0.07	<0.06
Chloromethane	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	22	2,600,000	10	2,500	1,000	120	{NA}	<0.3	<0.3	<0.4	<0.3	<0.4	<0.4 [<0.3]	<0.3	<0.3	<0.3
cis-1,2-Dichloroethene	mg/kg	640	640 {(C)}	12	640 {(C)}	1.4	1,000,000	41	1,000	430	210	{NA}	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]	<0.06	<0.07	<0.06
cis-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	5.4	470	200	60	- -	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]	<0.06	<0.07	<0.06
Dibromochloromethane	mg/kg	610	360	{ID}	500	1.6 {(W)}	160,000	21	98	80	80	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	2,000	2,000 {(C)}	{NA}	2,000 {(C)}	4.6	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	<0.3	<0.3	<0.4	<0.3	<0.4	<0.4 [<0.3]	<0.3	<0.3	<0.3
Dichlorodifluoromethane	mg/kg	1,000	1,000 {(C)}	{ID}	1,000 {(C)}	270	1,500,000,000	1,700	1,400,000	550,000	63,000	{NA}	<0.3	<0.3	<0.4	<0.3	<0.4	<0.4 [<0.3]	<0.3	<0.3	<0.3
Diethyl ether	mg/kg	7,400	7,400 {(C)}	{ID}	7,400 {(C)}	0.2	350,000,000	7,400 {(C)}	350,000	160,000	100,000	{NA}	**<0.3**	<0.2	**<0.3**	<0.2	**<0.3**	**<0.3 [<0.2]**	<0.2	**<0.3**	**<0.3**
Ethylbenzene	mg/kg	140	140 {(C)}	0.36	140 {(C)}	1.5	13,000,000	140 {(C)}	6,500	3,100	2,400	{NA}	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]	<0.06	<0.07	<0.06
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	79	1,400	1,400	660	{NA}	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4 [<0.4]	<0.3	<0.4	<0.4
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]	<0.1	<0.1	<0.1
Isopropylbenzene	mg/kg	390	390 {(C)}	3.2	390 {(C)}	260	2,600,000	390 {(C)}	3,000	2,000	2,000	{NA}	<0.3	<0.3	<0.4	<0.3	<0.4	<0.4 [<0.3]	<0.3	<0.3	<0.3
m&p-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	150 {(C)}	130,000	65,000	54,000	- -	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]	<0.1	<0.1	<0.1
Methyl tert-butyl ether	mg/kg	5,900	5,900 {(C)}	140 {(X)}	5,900 {(C)}	0.8	88,000,000	5,900 {(C)}	89,000	41,000	30,000	{NA}	<0.3	<0.2	<0.3	<0.2	<0.3	<0.3 [<0.2]	<0.2	<0.3	<0.3
Methylene Chloride	mg/kg	2,300	2,300 {(C)}	30 {(X)}	2,300 {(C)}	0.1	8,300,000	240	4,000	1,700	700	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]	<0.1	<0.1	<0.1
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	470	350	350	350	{NA}	<0.42	<0.4	<0.46	<0.4	<0.46	<0.48 [<0.39]	<0.38	<0.44	<0.42
n-Butylbenzene	mg/kg	10,000	120	{ID}	8,000	4.6	880,000	{ID}	{ID}	{ID}	{ID}	{NA}	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]	<0.06	<0.07	<0.06
n-Propylbenzene	mg/kg	10,000	300	{ID}	8,000	4.6	590,000	{ID}	{ID}	{ID}	{ID}	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]	<0.1	<0.1	<0.1
o-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	150 {(C)}	130,000	65,000	54,000	- -	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]	<0.06	<0.07	<0.06
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]	<0.1	<0.1	<0.1
sec-Butylbenzene	mg/kg	10,000	88	{ID}	8,000	4.6	180,000	- -	- -	- -	- -	{NA}	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]	<0.06	<0.07	<0.06
Styrene	mg/kg	520	270	2.1 {(X)}	520 {(C)}	2.7	6,900,000	520 {(C)}	4,200	3,300	3,300	{NA}	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]	<0.06	<0.07	<0.06
tert-Butylbenzene	mg/kg	10,000	180	{ID}	8,000	4.6	290,000	{ID}	{ID}	{ID}	{ID}	{NA}	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]	<0.06	<0.07	<0.06
Tetrachloroethene	mg/kg	88	88 {(C)}	1.2 {(X)}	88 {(C)}	0.1	1,200,000	21	1,100	490	210	{NA}	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]	<0.06	<0.07	<0.06
Tetrahydrofuran	mg/kg	120,000	32,000	220 {(X)}	9,500	5.4	170,000,000	2,400	160,000	67,000	15,000	{NA}	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-07 0.8 - 2 10/11/12	RFI-38-07 5 - 7 10/11/12	RFI-38-08 0.7 - 2 10/11/12	RFI-38-08 3 - 4 10/11/12	RFI-38-09 0.4 - 1.1 10/11/12	RFI-38-10 0.9 - 2 10/12/12	RFI-38-10 5 - 7 10/12/12	RFI-38-11 0.5 - 2 10/11/12	RFI-38-11 3.5 - 4.5 10/11/12
Toluene	mg/kg	250	250 {(C)}	5.4	250 {(C)}	16	12,000,000	250 {(C)}	36,000	36,000	3,300	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]	<0.1	<0.1	<0.1
trans-1,2-Dichloroethene	mg/kg	1,400	1,400 {(C)}	30 {(X)}	1,400 {(C)}	2	2,100,000	43	2,000	840	330	{NA}	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]	<0.06	<0.07	<0.06
trans-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	5.4	470	200	60	- -	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]	<0.06	<0.07	<0.06
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]	<0.06	<0.07	<0.06
Trichloroethene	mg/kg	500	440	4 {(X)}	500 {(C,DD)}	0.1	59,000	1.9	58	25	14	{NA}	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]	<0.06	<0.07	<0.06
Trichlorofluoromethane	mg/kg	560	560 {(C)}	{NA}	560 {(C)}	150	1,700,000,000	560 {(C)}	140,000,000	140,000,000	110,000	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]	<0.1	<0.1	<0.1
Vinyl Chloride	mg/kg	490	20	0.26 {(X)}	34	0.04	890,000	2.8	420	170	29	{NA}	**<0.06**	**<0.06**	**<0.07**	**<0.06**	**<0.07**	**<0.07 [<0.06]**	**<0.06**	**<0.07**	**<0.06**
SVOC																					
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	1,100 {(C)}	34,000	34,000	34,000	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	210 {(C)}	55,000	46,000	46,000	{NA}	**<0.33**	**<0.33**	**<0.33**	**<0.33**	**<0.33**	**<0.33 [<0.33]**	**<0.33**	**<0.33**	**<0.33**
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	48	110	94	94	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	100	340	260	260	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
2,4,5-Trichlorophenol	mg/kg	{NA}	9,100	{NA}	73,000	110	10,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
2,4,6-Trichlorophenol	mg/kg	{NA}	200	0.33 {(M)}	3,300	9.4	1,300,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
2,4-Dichlorophenol	mg/kg	1,800	960	0.33 {(M)}	1,800 {(C,DD)}	4.2	2,300,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
2,4-Dimethylphenol	mg/kg	{NA}	10,000	7.6	36,000	20	2,100,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83 [<0.83]	<0.83	<0.83	<0.83
2,4-Dinitrotoluene	mg/kg	{NA}	170	{NA}	220	0.64	20,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
2-Chloronaphthalene	mg/kg	{NA}	2,300	{NA}	180,000	1,800	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
2-Chlorophenol	mg/kg	19,000	1,900	0.36	4,500	2.6	530,000	800	1,100	1,100	1,100	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
2-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NLV}	{NLV}	{NLV}	{NLV}	- -	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83 [<0.83]	<0.83	<0.83	<0.83
2-Nitrophenol	mg/kg	{NA}	1,600	{ID}	2,000	1.2	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
3&4-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NLV}	{NLV}	{NLV}	{NLV}	- -	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
3,3'-Dichlorobenzidine	mg/kg	{NA}	4.6	2 {(M)}	30	2 {(M)}	8,200	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<2	<2	<2	<2	<2	<2 [<2]	<2	<2	<2
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83 [<0.83]	<0.83	<0.83	<0.83
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83 [<0.83]	<0.83	<0.83	<0.83
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
4-Chloro-3-Methylphenol	mg/kg	{NA}	3,000	0.28	15,000	16	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28 [<0.28]	<0.28	<0.28	<0.28
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83 [<0.83]	<0.83	<0.83	<0.83
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83 [<0.83]	<0.83	<0.83	<0.83
Acenaphthene	mg/kg	{NA}	970	8.7	130,000	880	6,200,000	350,000	97,000	97,000	97,000	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Acenaphthylene	mg/kg	{NA}	440	{ID}	5,200	17	1,000,000	3,000	2,700	2,700	2,700	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Anthracene	mg/kg	{NA}	41	{ID}	730,000	41	29,000,000	1,000,000 {(D)}	1,600,000	1,600,000	1,600,000	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	1,900	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.33	<0.33	<0.33	0.389	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	<0.33	<0.33	<0.33	0.344	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	{NLL}	7,000	{NLL}	350,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	800	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1 {(M)}	58	0.17	12,000	44	13	13	13	{NA}	**<0.33**	**<0.33**	**<0.33**	**<0.33**	**<0.33**	**<0.33 [<0.33]**	**<0.33**	**<0.33**	**<0.33**
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	{NLL}	10,000 {(C)}	{NLL}	890,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Butylbenzylphthalate	mg/kg	310	310 {(C)}	120 {(X)}	310 {(C)}	310 {(C)}	21,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Chrysene	mg/kg	{NA}	{NLL}	{NLL}	8,000	{NLL}	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	<0.33	<0.33	<0.33	0.448	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Dibenzofuran	mg/kg	{NA}	{ID}	1.7	{ID}	{ID}	2,900	3,600	160	160	160	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Diethylphthalate	mg/kg	740	740 {(C)}	2.2	740 {(C)}	320	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Dimethylphthalate	mg/kg	790	790 {(C)}	{NA}	790 {(C)}	790 {(C)}	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Di-n-Butylphthalate	mg/kg	760	760 {(C)}	11	760 {(C)}	760 {(C)}	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Di-n-Octylphthalate	mg/kg	140,000	140,000 {(C)}	{ID}	20,000	140,000 {(C)}	14,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Fluoranthene	mg/kg	{NA}	730	5.5	130,000	730	4,100,000	1,000,000 {(D)}	880,000	880,000	890,000	{NA}	<0.33	<0.33	<0.33	0.578	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Fluorene	mg/kg	{NA}	890	5.3	87,000	890	4,100,000	1,000,000 {(D)}	150,000	150,000	150,000	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Hexachlorobenzene	mg/kg	{NA}	8.2	0.35	37	1.8	8,500	220	56	56	56	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Hexachlorobutadiene	mg/kg	350	350 {(C)}	0.091	350 {(C)}	72	180,000	350 {(C)}	460	460	460	{NA}	**<0.33**	**<0.33**	**<0.33**	**<0.33**	**<0.33**	**<0.33 [<0.33]**	**<0.33**	**<0.33**	**<0.33**

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-07 0.8 - 2 10/11/12	RFI-38-07 5 - 7 10/11/12	RFI-38-08 0.7 - 2 10/11/12	RFI-38-08 3 - 4 10/11/12	RFI-38-09 0.4 - 1.1 10/11/12	RFI-38-10 0.9 - 2 10/12/12	RFI-38-10 5 - 7 10/12/12	RFI-38-11 0.5 - 2 10/11/12	RFI-38-11 3.5 - 4.5 10/11/12
Hexachlorocyclopentadiene	mg/kg	720	720 {(C)}	{ID}	720 {(C)}	320	5,900	56	60	60	60	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	79	1,400	1,400	660	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Isophorone	mg/kg	2,400	2,400 {(C)}	26 {(X)}	2,400 {(C)}	62	8,200,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	470	350	350	350	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Nitrobenzene	mg/kg	490	220	3.6 {(X)}	340	0.33 {(M)}	21,000	170	64	64	64	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	{NA}	5.4	0.33 {(M)}	2,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
N-Nitrosodiphenylamine	mg/kg	{NA}	700	{NA}	7,800	22	2,800,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Pentachlorophenol	mg/kg	{NA}	4.3	26.5 {(G,X)}	320	0.022	130,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	**<0.33**	**<0.33**	**<0.33**	**<0.33**	**<0.33**	**<0.33 [<0.33]**	**<0.33**	**<0.33**	**<0.33**
Phenanthrene	mg/kg	{NA}	1,100	2.1	5,200	160	2,900	5,100	190	190	190	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Phenol	mg/kg	12,000	12,000 {(C)}	9	12,000 {(C,DD)}	260	18,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Pyrene	mg/kg	{NA}	480	{ID}	84,000	480	2,900,000	1,000,000 {(D)}	780,000	780,000	780,000	{NA}	<0.33	<0.33	<0.33	0.526	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
PCB																					
Aroclor-1016	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Aroclor-1221	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Aroclor-1232	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Aroclor-1242	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Aroclor-1248	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Aroclor-1254	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
Aroclor-1260	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]	<0.33	<0.33	<0.33
TPH																					
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																					
Antimony	mg/kg	{NA}	49,000	94 {(X)}	670	4.3	5,900	- -	- -	- -	- -	{NA}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 [<0.5]	<0.5	<0.5	<0.5
Arsenic	mg/kg	{NA}	2,000	4.6	37	4.6	910	- -	- -	- -	- -	5.8	0.85	0.82	0.99	1.73	0.9	0.44 [0.44]	0.94	0.96	1
Barium	mg/kg	{NA}	1,000,000	858 {(G)}	130,000	1,300	150,000	- -	- -	- -	- -	75	10.8	10.8	11.5	**76.9**	11.5	6.18 [6.34]	6.53	11.4	13.4
Beryllium	mg/kg	{NA}	1,000,000	408 {(G)}	1,600	51	590	- -	- -	- -	- -	{NA}	<0.2	<0.2	<0.2	0.3	<0.2	<0.2 [<0.2]	<0.2	<0.2	<0.2
Cadmium	mg/kg	{NA}	230,000	5.74 {(G,X)}	2,100	6	2,200	- -	- -	- -	- -	1.2	<0.2	<0.2	<0.2	0.49	<0.2	<0.2 [<0.2]	<0.2	<0.2	<0.2
Chromium Total	mg/kg	{NA}	1,000,000 {(D)}	4,960,000	1,000,000 {(D)}	1,000,000 {(D)}	150,000	{NLV}	{NLV}	{NLV}	{NLV}	18	1.45	1.48	1.89	4.03	1.23	0.8 [0.79]	1	1.33	1.3
Cobalt	mg/kg	{NA}	48,000	2	9,000	2	5,900	- -	- -	- -	- -	6.8	**2.3**	1.55	**2.75**	**3.65**	1.81	0.66 [0.66]	1.06	1.53	1.83
Copper	mg/kg	{NA}	1,000,000	124 {(G)}	73,000	5,800	59,000	- -	- -	- -	- -	32	1.66	2.56	3.08	29.9	1.75	0.9 [1.01]	3.14	1.5	1.82
Cyanide (total)	mg/kg	{NA}	250	0.1	250	4	250	- -	- -	- -	- -	0.39 {(total)}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]	<0.1	<0.1	<0.1
Lead	mg/kg	{NA}	- -	5,450 {(G,X)}	900	700	44,000	- -	- -	- -	- -	21	3.71	4.03	7.56	**63.4**	3.35	1.69 [1.83]	3.16	3.37	3.16
Manganese	mg/kg	{NA}	180,000	95.3 {(G,X)}	90,000	1	1,500	- -	- -	- -	- -	440	**110**	**128**	**122**	**207**	**146**	**75.3 [70.5]**	**52.7**	**171**	**187**
Mercury	mg/kg	{NA}	47	0.05 {(M)}	580	1.7	8,800	89	62	62	62	0.13	<0.05	<0.05	<0.05	**0.076**	<0.05	<0.05 [<0.05]	<0.05	<0.05	<0.05
Nickel	mg/kg	{NA}	1,000,000	129 {(G)}	150,000	100	16,000	- -	- -	- -	- -	20	1.85	2.24	2.76	6.99	2.63	3.81 [3.55]	1.79	2.34	2.87
Selenium	mg/kg	{NA}	78,000	0.4	9,600	4	59,000	- -	- -	- -	- -	0.41	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4 [<0.4]	<0.4	<0.4	<0.4
Silver	mg/kg	{NA}	200,000	0.1 {(M)}	9,000	13	2,900	- -	- -	- -	- -	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]	<0.1	<0.1	<0.1
Thallium	mg/kg	{NA}	15,000	4.2 {(X)}	130	2.3	5,900	- -	- -	- -	- -	{NA}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2 [<0.2]	<0.2	<0.2	<0.2
Vanadium	mg/kg	{NA}	1,000,000	430	5,500	990	- -	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	1,000,000	280 {(G)}	630,000	5,000	- -	- -	- -	- -	- -	47	3.92	4.97	6.56	**60.2**	5.46	2.97 [3.3]	6.54	4.47	5.49
Miscellaneous																					
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	880,000	920,000	880,000	900,000	890,000	800,000 [900,000]	920,000	870,000	870,000

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: / Sample Depth(ft): / Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-12 0 - 2 03/21/13	RFI-38-12 0.7 - 1.4 10/12/12	RFI-38-12 3 - 5 03/21/13	RFI-38-12-1 0 - 2 03/21/13	RFI-38-12-1 3 - 5 03/21/13	RFI-38-12-2 0 - 2 03/21/13	RFI-38-12-2 3 - 5 03/21/13	RFI-38-12-4 0 - 2 03/21/13
VOC																				
1,1,1,2-Tetrachloroethane	mg/kg	440	440 {(C)}	{ID}	440 {(C)}	6.4	530,000	33	330	210	120	{NA}	NA	<0.2	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	460 {(C)}	1.8	460 {(C)}	4	29,000,000	460	31,000	15,000	4,500	{NA}	NA	<0.08	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6 {(X)}	240	0.7	68,000	23	34	34	34	{NA}	NA	<0.08	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	420	6.6 {(X)}	840	0.1	250,000	24	120	57	57	{NA}	NA	<0.08	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	890 {(C)}	15	890 {(C)}	50	15,000,000	430	14,000	6,000	2,500	{NA}	NA	<0.08	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	220	2.6	570 {(C)}	0.14	78,000	0.33	37	15	3.7	{NA}	NA	<0.08	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	<0.5	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	830 {(C)}	{NA}	830 {(C)}	2.4	8,800	7.5	12	11	11	{NA}	NA	<0.2	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	<0.2	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	1,100 {(C)}	34,000	34,000	34,000	{NA}	NA	<0.5	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	110 {(C)}	0.57	110 {(C)}	2.1	36,000,000	110 {(C)}	600,000	600,000	25,000	{NA}	NA	<0.2	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	<0.4	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.5	0.11 {(X)}	0.43	0.02 {(M)}	18,000	3.6	9.8	5.8	5.8	{NA}	NA	**<0.03 M**	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	210 {(C)}	55,000	46,000	46,000	{NA}	NA	<0.2	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	380	7.2 {(X)}	420	0.1	150,000	11	74	33	21	{NA}	NA	<0.08	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	320	4.6 {(X)}	550 {(C)}	0.1	120,000	7.4	120	51	30	{NA}	NA	<0.08	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	94 {(C)}	1.1	94 {(C)}	1.8	36,000,000	94 {(C)}	460,000	460,000	19,000	{NA}	NA	<0.2	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	48	110	94	94	{NA}	NA	<0.2	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	100	340	260	260	{NA}	NA	<0.2	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	27,000 {(C)}	44	27,000 {(C,DD)}	760	29,000,000	27,000 {(C)}	36,000	35,000	35,000	{NA}	NA	<1.1	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	2,500 {(C)}	{ID}	2,500 {(C)}	58	1,200,000	1,800	1,500	1,300	1,300	{NA}	NA	<4	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	{NA}	NA	<0.5	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	2,700 {(C)}	{ID}	2,700 {(C)}	100	60,000,000	2,700 {(C)}	70,000	53,000	53,000	{NA}	NA	<4	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	110,000 {(C)}	34	73,000	42	170,000,000	110,000 {(C)}	200,000	160,000	160,000	{NA}	NA	<2	NA	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	8,300	280	0.1 {(M)}	74	0.22	58,000	35	31	17	17	{NA}	NA	**<0.2**	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	220	4 {(X)}	400 {(C)}	0.1	470,000	8.4	230	99	45	{NA}	NA	<0.08	NA	NA	NA	NA	NA	NA
Bromobenzene	mg/kg	760	360	{NA}	760 {(C)}	1.5	240,000	580	540	540	540	{NA}	NA	<0.2	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	<0.2	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	280	{ID}	490	1.6 {(W)}	110,000	6.4	57	31	31	{NA}	NA	<0.2	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	870 {(C)}	{ID}	870 {(C)}	1.6 {(W)}	3,600,000	770	3,100	3,100	3,100	{NA}	NA	<0.2	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	1.6	140	57	13	{NA}	NA	<0.3	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	280 {(C)}	{ID}	280 {(C,DD)}	46	21,000,000	140	19,000	8,000	1,600	{NA}	NA	<0.4	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	92	0.9 {(X)}	390 {(C)}	0.1	170,000	0.99	79	34	12	{NA}	NA	<0.08	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	260 {(C)}	0.5	260 {(C)}	2	2,100,000	220	2,100	1,100	920	{NA}	NA	<0.08	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	950 {(C)}	22 {(X)}	950 {(C)}	34	290,000,000	950 {(C)}	280,000	120,000	36,000	{NA}	NA	<0.4	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	1,500 {(C)}	7	1,500 {(C)}	1.6 {(W)}	1,600,000	38	790	340	150	{NA}	NA	<0.08	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	22	2,600,000	10	2,500	1,000	120	{NA}	NA	<0.4	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	640 {(C)}	12	640 {(C)}	1.4	1,000,000	41	1,000	430	210	{NA}	NA	<0.08	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	5.4	470	200	60	- -	NA	<0.08	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	360	{ID}	500	1.6 {(W)}	160,000	21	98	80	80	{NA}	NA	<0.2	NA	NA	NA	NA	NA	NA
Dibromomethane	mg/kg	2,000	2,000 {(C)}	{NA}	2,000 {(C)}	4.6	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	<0.4	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	1,000 {(C)}	{ID}	1,000 {(C)}	270	1,500,000,000	1,700	1,400,000	550,000	63,000	{NA}	NA	<0.4	NA	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	7,400 {(C)}	{ID}	7,400 {(C)}	0.2	350,000,000	7,400 {(C)}	350,000	160,000	100,000	{NA}	NA	**<0.3**	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	140 {(C)}	0.36	140 {(C)}	1.5	13,000,000	140 {(C)}	6,500	3,100	2,400	{NA}	NA	<0.08	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	79	1,400	1,400	660	{NA}	NA	<0.5	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	<0.2	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	390 {(C)}	3.2	390 {(C)}	260	2,600,000	390 {(C)}	3,000	2,000	2,000	{NA}	NA	<0.4	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	150 {(C)}	130,000	65,000	54,000	- -	NA	<0.2	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	5,900 {(C)}	140 {(X)}	5,900 {(C)}	0.8	88,000,000	5,900 {(C)}	89,000	41,000	30,000	{NA}	NA	<0.3	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	2,300 {(C)}	30 {(X)}	2,300 {(C)}	0.1	8,300,000	240	4,000	1,700	700	{NA}	NA	**<0.2**	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	470	350	350	350	{NA}	NA	<0.5	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	120	{ID}	8,000	4.6	880,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	<0.08	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	300	{ID}	8,000	4.6	590,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	<0.2	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	150 {(C)}	130,000	65,000	54,000	- -	NA	<0.08	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	<0.2	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	88	{ID}	8,000	4.6	180,000	- -	- -	- -	- -	{NA}	NA	<0.08	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	270	2.1 {(X)}	520 {(C)}	2.7	6,900,000	520 {(C)}	4,200	3,300	3,300	{NA}	NA	<0.08	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	mg/kg	10,000	180	{ID}	8,000	4.6	290,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	<0.08	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	88 {(C)}	1.2 {(X)}	88 {(C)}	0.1	1,200,000	21	1,100	490	210	{NA}	NA	<0.08	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	mg/kg	120,000	32,000	220 {(X)}	9,500	5.4	170,000,000	2,400	160,000	67,000	15,000	{NA}	NA	<2	NA	NA	NA	NA	NA	NA

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: / Sample Depth(ft): / Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-12 0 - 2 03/21/13	RFI-38-12 0.7 - 1.4 10/12/12	RFI-38-12 3 - 5 03/21/13	RFI-38-12-1 0 - 2 03/21/13	RFI-38-12-1 3 - 5 03/21/13	RFI-38-12-2 0 - 2 03/21/13	RFI-38-12-2 3 - 5 03/21/13	RFI-38-12-4 0 - 2 03/21/13
Toluene	mg/kg	250	250 {(C)}	5.4	250 {(C)}	16	12,000,000	250 {(C)}	36,000	36,000	3,300	{NA}	NA	<0.2	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	1,400 {(C)}	30 {(X)}	1,400 {(C)}	2	2,100,000	43	2,000	840	330	{NA}	NA	<0.08	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	5.4	470	200	60	- -	NA	<0.08	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	<0.08	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	440	4 {(X)}	500 {(C,DD)}	0.1	59,000	1.9	58	25	14	{NA}	NA	<0.08	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	560 {(C)}	{NA}	560 {(C)}	150	1,700,000,000	560 {(C)}	140,000,000	140,000,000	110,000	{NA}	NA	<0.2	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	20	0.26 {(X)}	34	0.04	890,000	2.8	420	170	29	{NA}	NA	**<0.08**	NA	NA	NA	NA	NA	NA
SVOC																				
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	1,100 {(C)}	34,000	34,000	34,000	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	210 {(C)}	55,000	46,000	46,000	{NA}	NA	**<0.33**	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	<0.33	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	48	110	94	94	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	100	340	260	260	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	<0.33	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	9,100	{NA}	73,000	110	10,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	200	0.33 {(M)}	3,300	9.4	1,300,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	960	0.33 {(M)}	1,800 {(C,DD)}	4.2	2,300,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	10,000	7.6	36,000	20	2,100,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	<0.83	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	170	{NA}	220	0.64	20,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	<0.33	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	2,300	{NA}	180,000	1,800	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	1,900	0.36	4,500	2.6	530,000	800	1,100	1,100	1,100	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NLV}	{NLV}	{NLV}	{NLV}	- -	NA	<0.33	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	<0.83	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	1,600	{ID}	2,000	1.2	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NLV}	{NLV}	{NLV}	{NLV}	- -	NA	<0.33	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	4.6	2 {(M)}	30	2 {(M)}	8,200	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	<2	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	<0.83	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	<0.83	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	<0.33	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	3,000	0.28	15,000	16	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	<0.28	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	<0.33	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	<0.33	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	<0.83	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	<0.83	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	970	8.7	130,000	880	6,200,000	350,000	97,000	97,000	97,000	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	440	{ID}	5,200	17	1,000,000	3,000	2,700	2,700	2,700	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	41	{ID}	730,000	41	29,000,000	1,000,000 {(D)}	1,600,000	1,600,000	1,600,000	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	1,900	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	{NLL}	7,000	{NLL}	350,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	800	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	<0.33	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1 {(M)}	58	0.17	12,000	44	13	13	13	{NA}	NA	**<0.33**	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	{NLL}	10,000 {(C)}	{NLL}	890,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	310 {(C)}	120 {(X)}	310 {(C)}	310 {(C)}	21,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	{NLL}	8,000	{NLL}	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	1.7	{ID}	{ID}	2,900	3,600	160	160	160	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	740 {(C)}	2.2	740 {(C)}	320	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	790 {(C)}	{NA}	790 {(C)}	790 {(C)}	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	760 {(C)}	11	760 {(C)}	760 {(C)}	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	140,000 {(C)}	{ID}	20,000	140,000 {(C)}	14,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	730	5.5	130,000	730	4,100,000	1,000,000 {(D)}	880,000	880,000	890,000	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	890	5.3	87,000	890	4,100,000	1,000,000 {(D)}	150,000	150,000	150,000	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	8.2	0.35	37	1.8	8,500	220	56	56	56	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	350 {(C)}	0.091	350 {(C)}	72	180,000	350 {(C)}	460	460	460	{NA}	NA	**<0.33**	NA	NA	NA	NA	NA	NA

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-12 0 - 2 03/21/13	RFI-38-12 0.7 - 1.4 10/12/12	RFI-38-12 3 - 5 03/21/13	RFI-38-12-1 0 - 2 03/21/13	RFI-38-12-1 3 - 5 03/21/13	RFI-38-12-2 0 - 2 03/21/13	RFI-38-12-2 3 - 5 03/21/13	RFI-38-12-4 0 - 2 03/21/13
Hexachlorocyclopentadiene	mg/kg	720	720 {(C)}	{ID}	720 {(C)}	320	5,900	56	60	60	60	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	79	1,400	1,400	660	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	2,400 {(C)}	26 {(X)}	2,400 {(C)}	62	8,200,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	470	350	350	350	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	220	3.6 {(X)}	340	0.33 {(M)}	21,000	170	64	64	64	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	{NA}	5.4	0.33 {(M)}	2,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	700	{NA}	7,800	22	2,800,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	4.3	26.5 {(G,X)}	320	0.022	130,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	**<0.33**	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	1,100	2.1	5,200	160	2,900	5,100	190	190	190	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	12,000 {(C)}	9	12,000 {(C,DD)}	260	18,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	480	{ID}	84,000	480	2,900,000	1,000,000 {(D)}	780,000	780,000	780,000	{NA}	NA	<0.33	NA	NA	NA	NA	NA	NA
PCB																				
Aroclor-1016	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	<0.33	NA	NA	NA	NA	NA	NA
Aroclor-1221	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	<0.33	NA	NA	NA	NA	NA	NA
Aroclor-1232	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	<0.33	NA	NA	NA	NA	NA	NA
Aroclor-1242	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	<0.33	NA	NA	NA	NA	NA	NA
Aroclor-1248	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	<0.33	NA	NA	NA	NA	NA	NA
Aroclor-1254	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	<0.33	NA	NA	NA	NA	NA	NA
Aroclor-1260	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	<0.33	NA	NA	NA	NA	NA	NA
TPH																				
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																				
Antimony	mg/kg	{NA}	49,000	94 {(X)}	670	4.3	5,900	- -	- -	- -	- -	{NA}	NA	<0.5	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	2,000	4.6	37	4.6	910	- -	- -	- -	- -	5.8	NA	3.04	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	1,000,000	858 {(G)}	130,000	1,300	150,000	- -	- -	- -	- -	75	NA	**340**	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,000,000	408 {(G)}	1,600	51	590	- -	- -	- -	- -	{NA}	NA	2.7	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	230,000	5.74 {(G,X)}	2,100	6	2,200	- -	- -	- -	- -	1.2	NA	0.94	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	{NA}	1,000,000 {(D)}	4,960,000	1,000,000 {(D)}	1,000,000 {(D)}	150,000	{NLV}	{NLV}	{NLV}	{NLV}	18	NA	**199**	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	48,000	2	9,000	2	5,900	- -	- -	- -	- -	6.8	NA	**70.1**	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	1,000,000	124 {(G)}	73,000	5,800	59,000	- -	- -	- -	- -	32	NA	**127**	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	0.1	250	4	250	- -	- -	- -	- -	0.39 {(total)}	NA	<0.1	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	- -	5,450 {(G,X)}	900	700	44,000	- -	- -	- -	- -	21	NA	**133**	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	180,000	95.3 {(G,X)}	90,000	1	1,500	- -	- -	- -	- -	440	**491**	**6,750**	**338**	**1,790**	**63.7**	**2,200**	**115**	**3,110**
Mercury	mg/kg	{NA}	47	0.05 {(M)}	580	1.7	8,800	89	62	62	62	0.13	NA	<0.05	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	1,000,000	129 {(G)}	150,000	100	16,000	- -	- -	- -	- -	20	NA	**68.9**	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	78,000	0.4	9,600	4	59,000	- -	- -	- -	- -	0.41	NA	<0.4	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	200,000	0.1 {(M)}	9,000	13	2,900	- -	- -	- -	- -	1	NA	**1.08**	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	15,000	4.2 {(X)}	130	2.3	5,900	- -	- -	- -	- -	{NA}	NA	<0.2	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	1,000,000	430	5,500	990	- -	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	1,000,000	280 {(G)}	630,000	5,000	- -	- -	- -	- -	- -	47	NA	**518**	NA	NA	NA	NA	NA	NA
Miscellaneous																				
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	930,000	910,000	860,000	840,000	860,000	880,000	880,000	870,000

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-12-4 3 - 5 03/21/13	RFI-38-12-5 0 - 2 03/21/13	RFI-38-12-5 3 - 5 03/21/13	RFI-38-12-6 0 - 2 03/21/13	RFI-38-12-6 3 - 5 03/21/13	RFI-38-12-7 0 - 2 03/21/13	RFI-38-12-7 3 - 5 03/21/13
VOC																			
1,1,1,2-Tetrachloroethane	mg/kg	440	440 {(C)}	{ID}	440 {(C)}	6.4	530,000	33	330	210	120	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	460 {(C)}	1.8	460 {(C)}	4	29,000,000	460	31,000	15,000	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6 {(X)}	240	0.7	68,000	23	34	34	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	420	6.6 {(X)}	840	0.1	250,000	24	120	57	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	890 {(C)}	15	890 {(C)}	50	15,000,000	430	14,000	6,000	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	220	2.6	570 {(C)}	0.14	78,000	0.33	37	15	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	830 {(C)}	{NA}	830 {(C)}	2.4	8,800	7.5	12	11	11	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	1,100 {(C)}	34,000	34,000	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	110 {(C)}	0.57	110 {(C)}	2.1	36,000,000	110 {(C)}	600,000	600,000	25,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.5	0.11 {(X)}	0.43	0.02 {(M)}	18,000	3.6	9.8	5.8	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	210 {(C)}	55,000	46,000	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	380	7.2 {(X)}	420	0.1	150,000	11	74	33	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	320	4.6 {(X)}	550 {(C)}	0.1	120,000	7.4	120	51	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	94 {(C)}	1.1	94 {(C)}	1.8	36,000,000	94 {(C)}	460,000	460,000	19,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	48	110	94	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	100	340	260	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	27,000 {(C)}	44	27,000 {(C,DD)}	760	29,000,000	27,000 {(C)}	36,000	35,000	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	2,500 {(C)}	{ID}	2,500 {(C)}	58	1,200,000	1,800	1,500	1,300	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	2,700 {(C)}	{ID}	2,700 {(C)}	100	60,000,000	2,700 {(C)}	70,000	53,000	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	110,000 {(C)}	34	73,000	42	170,000,000	110,000 {(C)}	200,000	160,000	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	8,300	280	0.1 {(M)}	74	0.22	58,000	35	31	17	17	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	220	4 {(X)}	400 {(C)}	0.1	470,000	8.4	230	99	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	mg/kg	760	360	{NA}	760 {(C)}	1.5	240,000	580	540	540	540	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	280	{ID}	490	1.6 {(W)}	110,000	6.4	57	31	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	870 {(C)}	{ID}	870 {(C)}	1.6 {(W)}	3,600,000	770	3,100	3,100	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	1.6	140	57	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	280 {(C)}	{ID}	280 {(C,DD)}	46	21,000,000	140	19,000	8,000	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	92	0.9 {(X)}	390 {(C)}	0.1	170,000	0.99	79	34	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	260 {(C)}	0.5	260 {(C)}	2	2,100,000	220	2,100	1,100	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	950 {(C)}	22 {(X)}	950 {(C)}	34	290,000,000	950 {(C)}	280,000	120,000	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	1,500 {(C)}	7	1,500 {(C)}	1.6 {(W)}	1,600,000	38	790	340	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	22	2,600,000	10	2,500	1,000	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	640 {(C)}	12	640 {(C)}	1.4	1,000,000	41	1,000	430	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	5.4	470	200	60	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	360	{ID}	500	1.6 {(W)}	160,000	21	98	80	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	mg/kg	2,000	2,000 {(C)}	{NA}	2,000 {(C)}	4.6	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	1,000 {(C)}	{ID}	1,000 {(C)}	270	1,500,000,000	1,700	1,400,000	550,000	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	7,400 {(C)}	{ID}	7,400 {(C)}	0.2	350,000,000	7,400 {(C)}	350,000	160,000	100,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	140 {(C)}	0.36	140 {(C)}	1.5	13,000,000	140 {(C)}	6,500	3,100	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	79	1,400	1,400	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	390 {(C)}	3.2	390 {(C)}	260	2,600,000	390 {(C)}	3,000	2,000	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	150 {(C)}	130,000	65,000	54,000	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	5,900 {(C)}	140 {(X)}	5,900 {(C)}	0.8	88,000,000	5,900 {(C)}	89,000	41,000	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	2,300 {(C)}	30 {(X)}	2,300 {(C)}	0.1	8,300,000	240	4,000	1,700	700	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	470	350	350	350	{NA}	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	120	{ID}	8,000	4.6	880,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	300	{ID}	8,000	4.6	590,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	150 {(C)}	130,000	65,000	54,000	- -	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	88	{ID}	8,000	4.6	180,000	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	270	2.1 {(X)}	520 {(C)}	2.7	6,900,000	520 {(C)}	4,200	3,300	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	mg/kg	10,000	180	{ID}	8,000	4.6	290,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	88 {(C)}	1.2 {(X)}	88 {(C)}	0.1	1,200,000	21	1,100	490	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	mg/kg	120,000	32,000	220 {(X)}	9,500	5.4	170,000,000	2,400	160,000	67,000	15,000	{NA}	NA	NA	NA	NA	NA	NA	NA

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-12-4 3 - 5 03/21/13	RFI-38-12-5 0 - 2 03/21/13	RFI-38-12-5 3 - 5 03/21/13	RFI-38-12-6 0 - 2 03/21/13	RFI-38-12-6 3 - 5 03/21/13	RFI-38-12-7 0 - 2 03/21/13	RFI-38-12-7 3 - 5 03/21/13
Toluene	mg/kg	250	250 {(C)}	5.4	250 {(C)}	16	12,000,000	250 {(C)}	36,000	36,000	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	1,400 {(C)}	30 {(X)}	1,400 {(C)}	2	2,100,000	43	2,000	840	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	5.4	470	200	60	- -	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	440	4 {(X)}	500 {(C,DD)}	0.1	59,000	1.9	58	25	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	560 {(C)}	{NA}	560 {(C)}	150	1,700,000,000	560 {(C)}	140,000,000	140,000,000	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	20	0.26 {(X)}	34	0.04	890,000	2.8	420	170	29	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC																			
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	1,100 {(C)}	34,000	34,000	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	210 {(C)}	55,000	46,000	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	48	110	94	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	100	340	260	260	{NA}	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	9,100	{NA}	73,000	110	10,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	200	0.33 {(M)}	3,300	9.4	1,300,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	960	0.33 {(M)}	1,800 {(C,DD)}	4.2	2,300,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	10,000	7.6	36,000	20	2,100,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	170	{NA}	220	0.64	20,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	2,300	{NA}	180,000	1,800	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	1,900	0.36	4,500	2.6	530,000	800	1,100	1,100	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NLV}	{NLV}	{NLV}	{NLV}	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	1,600	{ID}	2,000	1.2	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NLV}	{NLV}	{NLV}	{NLV}	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	4.6	2 {(M)}	30	2 {(M)}	8,200	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	3,000	0.28	15,000	16	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	970	8.7	130,000	880	6,200,000	350,000	97,000	97,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	440	{ID}	5,200	17	1,000,000	3,000	2,700	2,700	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	41	{ID}	730,000	41	29,000,000	1,000,000 {(D)}	1,600,000	1,600,000	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	1,900	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	{NLL}	7,000	{NLL}	350,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	800	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1 {(M)}	58	0.17	12,000	44	13	13	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	{NLL}	10,000 {(C)}	{NLL}	890,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	310 {(C)}	120 {(X)}	310 {(C)}	310 {(C)}	21,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	{NLL}	8,000	{NLL}	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	1.7	{ID}	{ID}	2,900	3,600	160	160	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	740 {(C)}	2.2	740 {(C)}	320	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	790 {(C)}	{NA}	790 {(C)}	790 {(C)}	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	760 {(C)}	11	760 {(C)}	760 {(C)}	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	140,000 {(C)}	{ID}	20,000	140,000 {(C)}	14,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	730	5.5	130,000	730	4,100,000	1,000,000 {(D)}	880,000	880,000	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	890	5.3	87,000	890	4,100,000	1,000,000 {(D)}	150,000	150,000	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	8.2	0.35	37	1.8	8,500	220	56	56	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	350 {(C)}	0.091	350 {(C)}	72	180,000	350 {(C)}	460	460	460	{NA}	NA	NA	NA	NA	NA	NA	NA

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-12-4 3 - 5 03/21/13	RFI-38-12-5 0 - 2 03/21/13	RFI-38-12-5 3 - 5 03/21/13	RFI-38-12-6 0 - 2 03/21/13	RFI-38-12-6 3 - 5 03/21/13	RFI-38-12-7 0 - 2 03/21/13	RFI-38-12-7 3 - 5 03/21/13
Hexachlorocyclopentadiene	mg/kg	720	720 {(C)}	{ID}	720 {(C)}	320	5,900	56	60	60	60	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	79	1,400	1,400	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	2,400 {(C)}	26 {(X)}	2,400 {(C)}	62	8,200,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	470	350	350	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	220	3.6 {(X)}	340	0.33 {(M)}	21,000	170	64	64	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	{NA}	5.4	0.33 {(M)}	2,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	700	{NA}	7,800	22	2,800,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	4.3	26.5 {(G,X)}	320	0.022	130,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	1,100	2.1	5,200	160	2,900	5,100	190	190	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	12,000 {(C)}	9	12,000 {(C,DD)}	260	18,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	480	{ID}	84,000	480	2,900,000	1,000,000 {(D)}	780,000	780,000	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB																			
Aroclor-1016	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
TPH																			
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Inorganic																			
Antimony	mg/kg	{NA}	49,000	94 {(X)}	670	4.3	5,900	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	2,000	4.6	37	4.6	910	- -	- -	- -	- -	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	1,000,000	858 {(G)}	130,000	1,300	150,000	- -	- -	- -	- -	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,000,000	408 {(G)}	1,600	51	590	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	230,000	5.74 {(G,X)}	2,100	6	2,200	- -	- -	- -	- -	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	{NA}	1,000,000 {(D)}	4,960,000	1,000,000 {(D)}	1,000,000 {(D)}	150,000	{NLV}	{NLV}	{NLV}	{NLV}	18	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	48,000	2	9,000	2	5,900	- -	- -	- -	- -	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	1,000,000	124 {(G)}	73,000	5,800	59,000	- -	- -	- -	- -	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	0.1	250	4	250	- -	- -	- -	- -	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	- -	5,450 {(G,X)}	900	700	44,000	- -	- -	- -	- -	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	180,000	95.3 {(G,X)}	90,000	1	1,500	- -	- -	- -	- -	440	**1,180**	**4,440**	**210**	**339**	**47.9**	**177**	**228**
Mercury	mg/kg	{NA}	47	0.05 {(M)}	580	1.7	8,800	89	62	62	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	1,000,000	129 {(G)}	150,000	100	16,000	- -	- -	- -	- -	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	78,000	0.4	9,600	4	59,000	- -	- -	- -	- -	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	200,000	0.1 {(M)}	9,000	13	2,900	- -	- -	- -	- -	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	15,000	4.2 {(X)}	130	2.3	5,900	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	1,000,000	430	5,500	990	- -	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	1,000,000	280 {(G)}	630,000	5,000	- -	- -	- -	- -	- -	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																			
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	930,000	830,000	850,000	840,000	830,000	900,000	870,000

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-12-8 0 - 2 03/21/13	RFI-38-12-8 3 - 5 03/21/13	RFI-38-12-9 0 - 2 03/21/13	RFI-38-12-9 3 - 5 03/21/13	RFI-38-12-10 0 - 2 05/09/13	RFI-38-12-11 1 - 2 05/09/13	RFI-38-12-12 0 - 2 05/09/13
VOC																			
1,1,1,2-Tetrachloroethane	mg/kg	440	440 {(C)}	{ID}	440 {(C)}	6.4	530,000	33	330	210	120	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	460 {(C)}	1.8	460 {(C)}	4	29,000,000	460	31,000	15,000	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6 {(X)}	240	0.7	68,000	23	34	34	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	420	6.6 {(X)}	840	0.1	250,000	24	120	57	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	890 {(C)}	15	890 {(C)}	50	15,000,000	430	14,000	6,000	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	220	2.6	570 {(C)}	0.14	78,000	0.33	37	15	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	830 {(C)}	{NA}	830 {(C)}	2.4	8,800	7.5	12	11	11	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	1,100 {(C)}	34,000	34,000	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	110 {(C)}	0.57	110 {(C)}	2.1	36,000,000	110 {(C)}	600,000	600,000	25,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.5	0.11 {(X)}	0.43	0.02 {(M)}	18,000	3.6	9.8	5.8	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	210 {(C)}	55,000	46,000	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	380	7.2 {(X)}	420	0.1	150,000	11	74	33	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	320	4.6 {(X)}	550 {(C)}	0.1	120,000	7.4	120	51	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	94 {(C)}	1.1	94 {(C)}	1.8	36,000,000	94 {(C)}	460,000	460,000	19,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	48	110	94	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	100	340	260	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	27,000 {(C)}	44	27,000 {(C,DD)}	760	29,000,000	27,000 {(C)}	36,000	35,000	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	2,500 {(C)}	{ID}	2,500 {(C)}	58	1,200,000	1,800	1,500	1,300	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	2,700 {(C)}	{ID}	2,700 {(C)}	100	60,000,000	2,700 {(C)}	70,000	53,000	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	110,000 {(C)}	34	73,000	42	170,000,000	110,000 {(C)}	200,000	160,000	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	8,300	280	0.1 {(M)}	74	0.22	58,000	35	31	17	17	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	220	4 {(X)}	400 {(C)}	0.1	470,000	8.4	230	99	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	mg/kg	760	360	{NA}	760 {(C)}	1.5	240,000	580	540	540	540	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	280	{ID}	490	1.6 {(W)}	110,000	6.4	57	31	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	870 {(C)}	{ID}	870 {(C)}	1.6 {(W)}	3,600,000	770	3,100	3,100	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	1.6	140	57	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	280 {(C)}	{ID}	280 {(C,DD)}	46	21,000,000	140	19,000	8,000	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	92	0.9 {(X)}	390 {(C)}	0.1	170,000	0.99	79	34	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	260 {(C)}	0.5	260 {(C)}	2	2,100,000	220	2,100	1,100	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	950 {(C)}	22 {(X)}	950 {(C)}	34	290,000,000	950 {(C)}	280,000	120,000	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	1,500 {(C)}	7	1,500 {(C)}	1.6 {(W)}	1,600,000	38	790	340	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	22	2,600,000	10	2,500	1,000	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	640 {(C)}	12	640 {(C)}	1.4	1,000,000	41	1,000	430	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	5.4	470	200	60	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	360	{ID}	500	1.6 {(W)}	160,000	21	98	80	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	mg/kg	2,000	2,000 {(C)}	{NA}	2,000 {(C)}	4.6	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	1,000 {(C)}	{ID}	1,000 {(C)}	270	1,500,000,000	1,700	1,400,000	550,000	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	7,400 {(C)}	{ID}	7,400 {(C)}	0.2	350,000,000	7,400 {(C)}	350,000	160,000	100,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	140 {(C)}	0.36	140 {(C)}	1.5	13,000,000	140 {(C)}	6,500	3,100	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	79	1,400	1,400	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	390 {(C)}	3.2	390 {(C)}	260	2,600,000	390 {(C)}	3,000	2,000	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	150 {(C)}	130,000	65,000	54,000	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	5,900 {(C)}	140 {(X)}	5,900 {(C)}	0.8	88,000,000	5,900 {(C)}	89,000	41,000	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	2,300 {(C)}	30 {(X)}	2,300 {(C)}	0.1	8,300,000	240	4,000	1,700	700	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	470	350	350	350	{NA}	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	120	{ID}	8,000	4.6	880,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	300	{ID}	8,000	4.6	590,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	150 {(C)}	130,000	65,000	54,000	- -	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	88	{ID}	8,000	4.6	180,000	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	270	2.1 {(X)}	520 {(C)}	2.7	6,900,000	520 {(C)}	4,200	3,300	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	mg/kg	10,000	180	{ID}	8,000	4.6	290,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	88 {(C)}	1.2 {(X)}	88 {(C)}	0.1	1,200,000	21	1,100	490	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	mg/kg	120,000	32,000	220 {(X)}	9,500	5.4	170,000,000	2,400	160,000	67,000	15,000	{NA}	NA	NA	NA	NA	NA	NA	NA

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-12-8 0 - 2 03/21/13	RFI-38-12-8 3 - 5 03/21/13	RFI-38-12-9 0 - 2 03/21/13	RFI-38-12-9 3 - 5 03/21/13	RFI-38-12-10 0 - 2 05/09/13	RFI-38-12-11 1 - 2 05/09/13	RFI-38-12-12 0 - 2 05/09/13
Toluene	mg/kg	250	250 {(C)}	5.4	250 {(C)}	16	12,000,000	250 {(C)}	36,000	36,000	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	1,400 {(C)}	30 {(X)}	1,400 {(C)}	2	2,100,000	43	2,000	840	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	5.4	470	200	60	- -	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	440	4 {(X)}	500 {(C,DD)}	0.1	59,000	1.9	58	25	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	560 {(C)}	{NA}	560 {(C)}	150	1,700,000,000	560 {(C)}	140,000,000	140,000,000	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	20	0.26 {(X)}	34	0.04	890,000	2.8	420	170	29	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC																			
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	1,100 {(C)}	34,000	34,000	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	210 {(C)}	55,000	46,000	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	48	110	94	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	100	340	260	260	{NA}	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	9,100	{NA}	73,000	110	10,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	200	0.33 {(M)}	3,300	9.4	1,300,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	960	0.33 {(M)}	1,800 {(C,DD)}	4.2	2,300,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	10,000	7.6	36,000	20	2,100,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	170	{NA}	220	0.64	20,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	2,300	{NA}	180,000	1,800	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	1,900	0.36	4,500	2.6	530,000	800	1,100	1,100	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NLV}	{NLV}	{NLV}	{NLV}	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	1,600	{ID}	2,000	1.2	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NLV}	{NLV}	{NLV}	{NLV}	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	4.6	2 {(M)}	30	2 {(M)}	8,200	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	3,000	0.28	15,000	16	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	970	8.7	130,000	880	6,200,000	350,000	97,000	97,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	440	{ID}	5,200	17	1,000,000	3,000	2,700	2,700	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	41	{ID}	730,000	41	29,000,000	1,000,000 {(D)}	1,600,000	1,600,000	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	1,900	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	{NLL}	7,000	{NLL}	350,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	800	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1 {(M)}	58	0.17	12,000	44	13	13	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	{NLL}	10,000 {(C)}	{NLL}	890,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	310 {(C)}	120 {(X)}	310 {(C)}	310 {(C)}	21,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	{NLL}	8,000	{NLL}	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	1.7	{ID}	{ID}	2,900	3,600	160	160	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	740 {(C)}	2.2	740 {(C)}	320	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	790 {(C)}	{NA}	790 {(C)}	790 {(C)}	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	760 {(C)}	11	760 {(C)}	760 {(C)}	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	140,000 {(C)}	{ID}	20,000	140,000 {(C)}	14,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	730	5.5	130,000	730	4,100,000	1,000,000 {(D)}	880,000	880,000	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	890	5.3	87,000	890	4,100,000	1,000,000 {(D)}	150,000	150,000	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	8.2	0.35	37	1.8	8,500	220	56	56	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	350 {(C)}	0.091	350 {(C)}	72	180,000	350 {(C)}	460	460	460	{NA}	NA	NA	NA	NA	NA	NA	NA

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-12-8 0 - 2 03/21/13	RFI-38-12-8 3 - 5 03/21/13	RFI-38-12-9 0 - 2 03/21/13	RFI-38-12-9 3 - 5 03/21/13	RFI-38-12-10 0 - 2 05/09/13	RFI-38-12-11 1 - 2 05/09/13	RFI-38-12-12 0 - 2 05/09/13
Hexachlorocyclopentadiene	mg/kg	720	720 {(C)}	{ID}	720 {(C)}	320	5,900	56	60	60	60	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	79	1,400	1,400	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	2,400 {(C)}	26 {(X)}	2,400 {(C)}	62	8,200,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	470	350	350	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	220	3.6 {(X)}	340	0.33 {(M)}	21,000	170	64	64	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	{NA}	5.4	0.33 {(M)}	2,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	700	{NA}	7,800	22	2,800,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	4.3	26.5 {(G,X)}	320	0.022	130,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	1,100	2.1	5,200	160	2,900	5,100	190	190	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	12,000 {(C)}	9	12,000 {(C,DD)}	260	18,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	480	{ID}	84,000	480	2,900,000	1,000,000 {(D)}	780,000	780,000	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB																			
Aroclor-1016	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
TPH																			
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Inorganic																			
Antimony	mg/kg	{NA}	49,000	94 {(X)}	670	4.3	5,900	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	2,000	4.6	37	4.6	910	- -	- -	- -	- -	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	1,000,000	858 {(G)}	130,000	1,300	150,000	- -	- -	- -	- -	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,000,000	408 {(G)}	1,600	51	590	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	230,000	5.74 {(G,X)}	2,100	6	2,200	- -	- -	- -	- -	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	{NA}	1,000,000 {(D)}	4,960,000	1,000,000 {(D)}	1,000,000 {(D)}	150,000	{NLV}	{NLV}	{NLV}	{NLV}	18	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	48,000	2	9,000	2	5,900	- -	- -	- -	- -	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	1,000,000	124 {(G)}	73,000	5,800	59,000	- -	- -	- -	- -	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	0.1	250	4	250	- -	- -	- -	- -	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	- -	5,450 {(G,X)}	900	700	44,000	- -	- -	- -	- -	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	180,000	95.3 {(G,X)}	90,000	1	1,500	- -	- -	- -	- -	440	**141**	**94.2**	**461**	**34.9**	**1,090**	**210**	**1,980**
Mercury	mg/kg	{NA}	47	0.05 {(M)}	580	1.7	8,800	89	62	62	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	1,000,000	129 {(G)}	150,000	100	16,000	- -	- -	- -	- -	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	78,000	0.4	9,600	4	59,000	- -	- -	- -	- -	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	200,000	0.1 {(M)}	9,000	13	2,900	- -	- -	- -	- -	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	15,000	4.2 {(X)}	130	2.3	5,900	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	1,000,000	430	5,500	990	- -	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	1,000,000	280 {(G)}	630,000	5,000	- -	- -	- -	- -	- -	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																			
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	900,000	850,000	900,000	950,000	900,000	850,000	920,000

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-12-13 0 - 2 06/05/13	RFI-38-12-14 0 - 2 05/09/13	RFI-38-12-15 0 - 2 05/09/13	RFI-38-12-16 1 - 2 05/10/13	RFI-38-12-17 1 - 2 05/09/13	RFI-38-12-19 0 - 2 06/05/13	RFI-38-12-20 0 - 2 05/28/13
VOC																			
1,1,1,2-Tetrachloroethane	mg/kg	440	440 {(C)}	{ID}	440 {(C)}	6.4	530,000	33	330	210	120	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	460 {(C)}	1.8	460 {(C)}	4	29,000,000	460	31,000	15,000	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6 {(X)}	240	0.7	68,000	23	34	34	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	420	6.6 {(X)}	840	0.1	250,000	24	120	57	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	890 {(C)}	15	890 {(C)}	50	15,000,000	430	14,000	6,000	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	220	2.6	570 {(C)}	0.14	78,000	0.33	37	15	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	830 {(C)}	{NA}	830 {(C)}	2.4	8,800	7.5	12	11	11	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	1,100 {(C)}	34,000	34,000	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	110 {(C)}	0.57	110 {(C)}	2.1	36,000,000	110 {(C)}	600,000	600,000	25,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.5	0.11 {(X)}	0.43	0.02 {(M)}	18,000	3.6	9.8	5.8	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	210 {(C)}	55,000	46,000	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	380	7.2 {(X)}	420	0.1	150,000	11	74	33	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	320	4.6 {(X)}	550 {(C)}	0.1	120,000	7.4	120	51	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	94 {(C)}	1.1	94 {(C)}	1.8	36,000,000	94 {(C)}	460,000	460,000	19,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	48	110	94	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	100	340	260	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	27,000 {(C)}	44	27,000 {(C,DD)}	760	29,000,000	27,000 {(C)}	36,000	35,000	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	2,500 {(C)}	{ID}	2,500 {(C)}	58	1,200,000	1,800	1,500	1,300	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	2,700 {(C)}	{ID}	2,700 {(C)}	100	60,000,000	2,700 {(C)}	70,000	53,000	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	110,000 {(C)}	34	73,000	42	170,000,000	110,000 {(C)}	200,000	160,000	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	8,300	280	0.1 {(M)}	74	0.22	58,000	35	31	17	17	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	220	4 {(X)}	400 {(C)}	0.1	470,000	8.4	230	99	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	mg/kg	760	360	{NA}	760 {(C)}	1.5	240,000	580	540	540	540	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	280	{ID}	490	1.6 {(W)}	110,000	6.4	57	31	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	870 {(C)}	{ID}	870 {(C)}	1.6 {(W)}	3,600,000	770	3,100	3,100	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	1.6	140	57	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	280 {(C)}	{ID}	280 {(C,DD)}	46	21,000,000	140	19,000	8,000	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	92	0.9 {(X)}	390 {(C)}	0.1	170,000	0.99	79	34	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	260 {(C)}	0.5	260 {(C)}	2	2,100,000	220	2,100	1,100	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	950 {(C)}	22 {(X)}	950 {(C)}	34	290,000,000	950 {(C)}	280,000	120,000	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	1,500 {(C)}	7	1,500 {(C)}	1.6 {(W)}	1,600,000	38	790	340	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	22	2,600,000	10	2,500	1,000	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	640 {(C)}	12	640 {(C)}	1.4	1,000,000	41	1,000	430	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	5.4	470	200	60	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	360	{ID}	500	1.6 {(W)}	160,000	21	98	80	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	mg/kg	2,000	2,000 {(C)}	{NA}	2,000 {(C)}	4.6	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	1,000 {(C)}	{ID}	1,000 {(C)}	270	1,500,000,000	1,700	1,400,000	550,000	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	7,400 {(C)}	{ID}	7,400 {(C)}	0.2	350,000,000	7,400 {(C)}	350,000	160,000	100,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	140 {(C)}	0.36	140 {(C)}	1.5	13,000,000	140 {(C)}	6,500	3,100	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	79	1,400	1,400	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	390 {(C)}	3.2	390 {(C)}	260	2,600,000	390 {(C)}	3,000	2,000	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	150 {(C)}	130,000	65,000	54,000	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	5,900 {(C)}	140 {(X)}	5,900 {(C)}	0.8	88,000,000	5,900 {(C)}	89,000	41,000	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	2,300 {(C)}	30 {(X)}	2,300 {(C)}	0.1	8,300,000	240	4,000	1,700	700	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	470	350	350	350	{NA}	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	120	{ID}	8,000	4.6	880,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	300	{ID}	8,000	4.6	590,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	150 {(C)}	130,000	65,000	54,000	- -	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	88	{ID}	8,000	4.6	180,000	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	270	2.1 {(X)}	520 {(C)}	2.7	6,900,000	520 {(C)}	4,200	3,300	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	mg/kg	10,000	180	{ID}	8,000	4.6	290,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	88 {(C)}	1.2 {(X)}	88 {(C)}	0.1	1,200,000	21	1,100	490	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	mg/kg	120,000	32,000	220 {(X)}	9,500	5.4	170,000,000	2,400	160,000	67,000	15,000	{NA}	NA	NA	NA	NA	NA	NA	NA

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICl	SDBL	RFI-38-12-13 0 - 2 06/05/13	RFI-38-12-14 0 - 2 05/09/13	RFI-38-12-15 0 - 2 05/09/13	RFI-38-12-16 1 - 2 05/10/13	RFI-38-12-17 1 - 2 05/09/13	RFI-38-12-19 0 - 2 06/05/13	RFI-38-12-20 0 - 2 05/28/13
Toluene	mg/kg	250	250 {(C)}	5.4	250 {(C)}	16	12,000,000	250 {(C)}	36,000	36,000	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	1,400 {(C)}	30 {(X)}	1,400 {(C)}	2	2,100,000	43	2,000	840	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	5.4	470	200	60	- -	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	440	4 {(X)}	500 {(C,DD)}	0.1	59,000	1.9	58	25	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	560 {(C)}	{NA}	560 {(C)}	150	1,700,000,000	560 {(C)}	140,000,000	140,000,000	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	20	0.26 {(X)}	34	0.04	890,000	2.8	420	170	29	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC																			
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	1,100 {(C)}	34,000	34,000	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	210 {(C)}	55,000	46,000	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	48	110	94	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	100	340	260	260	{NA}	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	9,100	{NA}	73,000	110	10,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	200	0.33 {(M)}	3,300	9.4	1,300,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	960	0.33 {(M)}	1,800 {(C,DD)}	4.2	2,300,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	10,000	7.6	36,000	20	2,100,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	170	{NA}	220	0.64	20,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	2,300	{NA}	180,000	1,800	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	1,900	0.36	4,500	2.6	530,000	800	1,100	1,100	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NLV}	{NLV}	{NLV}	{NLV}	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	1,600	{ID}	2,000	1.2	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NLV}	{NLV}	{NLV}	{NLV}	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	4.6	2 {(M)}	30	2 {(M)}	8,200	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	3,000	0.28	15,000	16	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	970	8.7	130,000	880	6,200,000	350,000	97,000	97,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	440	{ID}	5,200	17	1,000,000	3,000	2,700	2,700	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	41	{ID}	730,000	41	29,000,000	1,000,000 {(D)}	1,600,000	1,600,000	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	1,900	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	{NLL}	7,000	{NLL}	350,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	800	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1 {(M)}	58	0.17	12,000	44	13	13	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	{NLL}	10,000 {(C)}	{NLL}	890,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	310 {(C)}	120 {(X)}	310 {(C)}	310 {(C)}	21,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	{NLL}	8,000	{NLL}	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	1.7	{ID}	{ID}	2,900	3,600	160	160	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	740 {(C)}	2.2	740 {(C)}	320	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	790 {(C)}	{NA}	790 {(C)}	790 {(C)}	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	760 {(C)}	11	760 {(C)}	760 {(C)}	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	140,000 {(C)}	{ID}	20,000	140,000 {(C)}	14,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	730	5.5	130,000	730	4,100,000	1,000,000 {(D)}	880,000	880,000	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	890	5.3	87,000	890	4,100,000	1,000,000 {(D)}	150,000	150,000	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	8.2	0.35	37	1.8	8,500	220	56	56	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	350 {(C)}	0.091	350 {(C)}	72	180,000	350 {(C)}	460	460	460	{NA}	NA	NA	NA	NA	NA	NA	NA

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-12-13 0 - 2 06/05/13	RFI-38-12-14 0 - 2 05/09/13	RFI-38-12-15 0 - 2 05/09/13	RFI-38-12-16 1 - 2 05/10/13	RFI-38-12-17 1 - 2 05/09/13	RFI-38-12-19 0 - 2 06/05/13	RFI-38-12-20 0 - 2 05/28/13
Hexachlorocyclopentadiene	mg/kg	720	720 {(C)}	{ID}	720 {(C)}	320	5,900	56	60	60	60	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	79	1,400	1,400	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	2,400 {(C)}	26 {(X)}	2,400 {(C)}	62	8,200,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	470	350	350	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	220	3.6 {(X)}	340	0.33 {(M)}	21,000	170	64	64	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	{NA}	5.4	0.33 {(M)}	2,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	700	{NA}	7,800	22	2,800,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	4.3	26.5 {(G,X)}	320	0.022	130,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	1,100	2.1	5,200	160	2,900	5,100	190	190	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	12,000 {(C)}	9	12,000 {(C,DD)}	260	18,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	480	{ID}	84,000	480	2,900,000	1,000,000 {(D)}	780,000	780,000	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB																			
Aroclor-1016	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
TPH																			
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Inorganic																			
Antimony	mg/kg	{NA}	49,000	94 {(X)}	670	4.3	5,900	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	2,000	4.6	37	4.6	910	- -	- -	- -	- -	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	1,000,000	858 {(G)}	130,000	1,300	150,000	- -	- -	- -	- -	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,000,000	408 {(G)}	1,600	51	590	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	230,000	5.74 {(G,X)}	2,100	6	2,200	- -	- -	- -	- -	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	{NA}	1,000,000 {(D)}	4,960,000	1,000,000 {(D)}	1,000,000 {(D)}	150,000	{NLV}	{NLV}	{NLV}	{NLV}	18	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	48,000	2	9,000	2	5,900	- -	- -	- -	- -	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	1,000,000	124 {(G)}	73,000	5,800	59,000	- -	- -	- -	- -	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	0.1	250	4	250	- -	- -	- -	- -	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	- -	5,450 {(G,X)}	900	700	44,000	- -	- -	- -	- -	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	180,000	95.3 {(G,X)}	90,000	1	1,500	- -	- -	- -	- -	440	**170**	**466**	**355**	**718**	**464**	**431**	**604**
Mercury	mg/kg	{NA}	47	0.05 {(M)}	580	1.7	8,800	89	62	62	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	1,000,000	129 {(G)}	150,000	100	16,000	- -	- -	- -	- -	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	78,000	0.4	9,600	4	59,000	- -	- -	- -	- -	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	200,000	0.1 {(M)}	9,000	13	2,900	- -	- -	- -	- -	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	15,000	4.2 {(X)}	130	2.3	5,900	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	1,000,000	430	5,500	990	- -	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	1,000,000	280 {(G)}	630,000	5,000	- -	- -	- -	- -	- -	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																			
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	870,000	890,000	860,000	900,000	900,000	890,000	900,000

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-12-21 0 - 2 06/05/13	RFI-38-12-22 1 - 2 10/30/13	RFI-38-12-23 1.2 - 2 10/30/13	RFI-38-12-24 1 - 2 10/30/13	RFI-38-12-25 0.8 - 2 10/30/13	RFI-38-12-26 0.5 - 2 10/30/13	RFI-38-12-27 0.5 - 2 10/30/13
VOC																			
1,1,1,2-Tetrachloroethane	mg/kg	440	440 {(C)}	{ID}	440 {(C)}	6.4	530,000	33	330	210	120	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	460 {(C)}	1.8	460 {(C)}	4	29,000,000	460	31,000	15,000	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6 {(X)}	240	0.7	68,000	23	34	34	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	420	6.6 {(X)}	840	0.1	250,000	24	120	57	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	890 {(C)}	15	890 {(C)}	50	15,000,000	430	14,000	6,000	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	220	2.6	570 {(C)}	0.14	78,000	0.33	37	15	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	830 {(C)}	{NA}	830 {(C)}	2.4	8,800	7.5	12	11	11	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	1,100 {(C)}	34,000	34,000	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	110 {(C)}	0.57	110 {(C)}	2.1	36,000,000	110 {(C)}	600,000	600,000	25,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.5	0.11 {(X)}	0.43	0.02 {(M)}	18,000	3.6	9.8	5.8	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	210 {(C)}	55,000	46,000	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	380	7.2 {(X)}	420	0.1	150,000	11	74	33	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	320	4.6 {(X)}	550 {(C)}	0.1	120,000	7.4	120	51	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	94 {(C)}	1.1	94 {(C)}	1.8	36,000,000	94 {(C)}	460,000	460,000	19,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	48	110	94	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	100	340	260	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	27,000 {(C)}	44	27,000 {(C,DD)}	760	29,000,000	27,000 {(C)}	36,000	35,000	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	2,500 {(C)}	{ID}	2,500 {(C)}	58	1,200,000	1,800	1,500	1,300	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	2,700 {(C)}	{ID}	2,700 {(C)}	100	60,000,000	2,700 {(C)}	70,000	53,000	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	110,000 {(C)}	34	73,000	42	170,000,000	110,000 {(C)}	200,000	160,000	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	8,300	280	0.1 {(M)}	74	0.22	58,000	35	31	17	17	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	220	4 {(X)}	400 {(C)}	0.1	470,000	8.4	230	99	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	mg/kg	760	360	{NA}	760 {(C)}	1.5	240,000	580	540	540	540	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	280	{ID}	490	1.6 {(W)}	110,000	6.4	57	31	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	870 {(C)}	{ID}	870 {(C)}	1.6 {(W)}	3,600,000	770	3,100	3,100	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	1.6	140	57	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	280 {(C)}	{ID}	280 {(C,DD)}	46	21,000,000	140	19,000	8,000	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	92	0.9 {(X)}	390 {(C)}	0.1	170,000	0.99	79	34	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	260 {(C)}	0.5	260 {(C)}	2	2,100,000	220	2,100	1,100	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	950 {(C)}	22 {(X)}	950 {(C)}	34	290,000,000	950 {(C)}	280,000	120,000	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	1,500 {(C)}	7	1,500 {(C)}	1.6 {(W)}	1,600,000	38	790	340	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	22	2,600,000	10	2,500	1,000	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	640 {(C)}	12	640 {(C)}	1.4	1,000,000	41	1,000	430	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	5.4	470	200	60	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	360	{ID}	500	1.6 {(W)}	160,000	21	98	80	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	mg/kg	2,000	2,000 {(C)}	{NA}	2,000 {(C)}	4.6	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	1,000 {(C)}	{ID}	1,000 {(C)}	270	1,500,000,000	1,700	1,400,000	550,000	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	7,400 {(C)}	{ID}	7,400 {(C)}	0.2	350,000,000	7,400 {(C)}	350,000	160,000	100,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	140 {(C)}	0.36	140 {(C)}	1.5	13,000,000	140 {(C)}	6,500	3,100	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	79	1,400	1,400	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	390 {(C)}	3.2	390 {(C)}	260	2,600,000	390 {(C)}	3,000	2,000	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	150 {(C)}	130,000	65,000	54,000	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	5,900 {(C)}	140 {(X)}	5,900 {(C)}	0.8	88,000,000	5,900 {(C)}	89,000	41,000	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	2,300 {(C)}	30 {(X)}	2,300 {(C)}	0.1	8,300,000	240	4,000	1,700	700	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	470	350	350	350	{NA}	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	120	{ID}	8,000	4.6	880,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	300	{ID}	8,000	4.6	590,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	150 {(C)}	130,000	65,000	54,000	- -	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	88	{ID}	8,000	4.6	180,000	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	270	2.1 {(X)}	520 {(C)}	2.7	6,900,000	520 {(C)}	4,200	3,300	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	mg/kg	10,000	180	{ID}	8,000	4.6	290,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	88 {(C)}	1.2 {(X)}	88 {(C)}	0.1	1,200,000	21	1,100	490	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	mg/kg	120,000	32,000	220 {(X)}	9,500	5.4	170,000,000	2,400	160,000	67,000	15,000	{NA}	NA	NA	NA	NA	NA	NA	NA

Table 2A
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Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-12-21 0 - 2 06/05/13	RFI-38-12-22 1 - 2 10/30/13	RFI-38-12-23 1.2 - 2 10/30/13	RFI-38-12-24 1 - 2 10/30/13	RFI-38-12-25 0.8 - 2 10/30/13	RFI-38-12-26 0.5 - 2 10/30/13	RFI-38-12-27 0.5 - 2 10/30/13
Toluene	mg/kg	250	250 {(C)}	5.4	250 {(C)}	16	12,000,000	250 {(C)}	36,000	36,000	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	1,400 {(C)}	30 {(X)}	1,400 {(C)}	2	2,100,000	43	2,000	840	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	5.4	470	200	60	- -	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	440	4 {(X)}	500 {(C,DD)}	0.1	59,000	1.9	58	25	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	560 {(C)}	{NA}	560 {(C)}	150	1,700,000,000	560 {(C)}	140,000,000	140,000,000	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	20	0.26 {(X)}	34	0.04	890,000	2.8	420	170	29	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC																			
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	1,100 {(C)}	34,000	34,000	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	210 {(C)}	55,000	46,000	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	48	110	94	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	100	340	260	260	{NA}	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	9,100	{NA}	73,000	110	10,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	200	0.33 {(M)}	3,300	9.4	1,300,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	960	0.33 {(M)}	1,800 {(C,DD)}	4.2	2,300,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	10,000	7.6	36,000	20	2,100,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	170	{NA}	220	0.64	20,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	2,300	{NA}	180,000	1,800	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	1,900	0.36	4,500	2.6	530,000	800	1,100	1,100	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NLV}	{NLV}	{NLV}	{NLV}	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	1,600	{ID}	2,000	1.2	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NLV}	{NLV}	{NLV}	{NLV}	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	4.6	2 {(M)}	30	2 {(M)}	8,200	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	3,000	0.28	15,000	16	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	970	8.7	130,000	880	6,200,000	350,000	97,000	97,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	440	{ID}	5,200	17	1,000,000	3,000	2,700	2,700	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	41	{ID}	730,000	41	29,000,000	1,000,000 {(D)}	1,600,000	1,600,000	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	1,900	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	{NLL}	7,000	{NLL}	350,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	800	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1 {(M)}	58	0.17	12,000	44	13	13	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	{NLL}	10,000 {(C)}	{NLL}	890,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	310 {(C)}	120 {(X)}	310 {(C)}	310 {(C)}	21,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	{NLL}	8,000	{NLL}	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	1.7	{ID}	{ID}	2,900	3,600	160	160	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	740 {(C)}	2.2	740 {(C)}	320	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	790 {(C)}	{NA}	790 {(C)}	790 {(C)}	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	760 {(C)}	11	760 {(C)}	760 {(C)}	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	140,000 {(C)}	{ID}	20,000	140,000 {(C)}	14,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	730	5.5	130,000	730	4,100,000	1,000,000 {(D)}	880,000	880,000	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	890	5.3	87,000	890	4,100,000	1,000,000 {(D)}	150,000	150,000	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	8.2	0.35	37	1.8	8,500	220	56	56	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	350 {(C)}	0.091	350 {(C)}	72	180,000	350 {(C)}	460	460	460	{NA}	NA	NA	NA	NA	NA	NA	NA

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-12-21 0 - 2 06/05/13	RFI-38-12-22 1 - 2 10/30/13	RFI-38-12-23 1.2 - 2 10/30/13	RFI-38-12-24 1 - 2 10/30/13	RFI-38-12-25 0.8 - 2 10/30/13	RFI-38-12-26 0.5 - 2 10/30/13	RFI-38-12-27 0.5 - 2 10/30/13
Hexachlorocyclopentadiene	mg/kg	720	720 {(C)}	{ID}	720 {(C)}	320	5,900	56	60	60	60	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	79	1,400	1,400	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	2,400 {(C)}	26 {(X)}	2,400 {(C)}	62	8,200,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	470	350	350	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	220	3.6 {(X)}	340	0.33 {(M)}	21,000	170	64	64	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	{NA}	5.4	0.33 {(M)}	2,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	700	{NA}	7,800	22	2,800,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	4.3	26.5 {(G,X)}	320	0.022	130,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	1,100	2.1	5,200	160	2,900	5,100	190	190	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	12,000 {(C)}	9	12,000 {(C,DD)}	260	18,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	480	{ID}	84,000	480	2,900,000	1,000,000 {(D)}	780,000	780,000	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB																			
Aroclor-1016	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
TPH																			
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Inorganic																			
Antimony	mg/kg	{NA}	49,000	94 {(X)}	670	4.3	5,900	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	2,000	4.6	37	4.6	910	- -	- -	- -	- -	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	1,000,000	858 {(G)}	130,000	1,300	150,000	- -	- -	- -	- -	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,000,000	408 {(G)}	1,600	51	590	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	230,000	5.74 {(G,X)}	2,100	6	2,200	- -	- -	- -	- -	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	{NA}	1,000,000 {(D)}	4,960,000	1,000,000 {(D)}	1,000,000 {(D)}	150,000	{NLV}	{NLV}	{NLV}	{NLV}	18	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	48,000	2	9,000	2	5,900	- -	- -	- -	- -	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	1,000,000	124 {(G)}	73,000	5,800	59,000	- -	- -	- -	- -	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	0.1	250	4	250	- -	- -	- -	- -	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	- -	5,450 {(G,X)}	900	700	44,000	- -	- -	- -	- -	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	180,000	95.3 {(G,X)}	90,000	1	1,500	- -	- -	- -	- -	440	**386**	**594**	**699**	**1,140**	**688**	**2,070**	**1,230**
Mercury	mg/kg	{NA}	47	0.05 {(M)}	580	1.7	8,800	89	62	62	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	1,000,000	129 {(G)}	150,000	100	16,000	- -	- -	- -	- -	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	78,000	0.4	9,600	4	59,000	- -	- -	- -	- -	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	200,000	0.1 {(M)}	9,000	13	2,900	- -	- -	- -	- -	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	15,000	4.2 {(X)}	130	2.3	5,900	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	1,000,000	430	5,500	990	- -	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	1,000,000	280 {(G)}	630,000	5,000	- -	- -	- -	- -	- -	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																			
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	890,000	950,000	870,000	870,000	870,000	860,000	870,000

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-12-28 0.5 - 2 10/30/13	RFI-38-12-29 0.5 - 2 10/30/13	RFI-38-12-30 0.5 - 2 10/30/13	RFI-38-12-31 1 - 2 10/30/13	RFI-38-12-32 0.5 - 2 10/30/13	RFI-38-12-33 0.5 - 2 10/30/13	RFI-38-12-34 1 - 2 10/30/13
VOC																			
1,1,1,2-Tetrachloroethane	mg/kg	440	440 {(C)}	{ID}	440 {(C)}	6.4	530,000	33	330	210	120	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	460 {(C)}	1.8	460 {(C)}	4	29,000,000	460	31,000	15,000	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6 {(X)}	240	0.7	68,000	23	34	34	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	420	6.6 {(X)}	840	0.1	250,000	24	120	57	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	890 {(C)}	15	890 {(C)}	50	15,000,000	430	14,000	6,000	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	220	2.6	570 {(C)}	0.14	78,000	0.33	37	15	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	830 {(C)}	{NA}	830 {(C)}	2.4	8,800	7.5	12	11	11	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	1,100 {(C)}	34,000	34,000	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	110 {(C)}	0.57	110 {(C)}	2.1	36,000,000	110 {(C)}	600,000	600,000	25,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.5	0.11 {(X)}	0.43	0.02 {(M)}	18,000	3.6	9.8	5.8	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	210 {(C)}	55,000	46,000	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	380	7.2 {(X)}	420	0.1	150,000	11	74	33	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	320	4.6 {(X)}	550 {(C)}	0.1	120,000	7.4	120	51	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	94 {(C)}	1.1	94 {(C)}	1.8	36,000,000	94 {(C)}	460,000	460,000	19,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	48	110	94	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	100	340	260	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	27,000 {(C)}	44	27,000 {(C,DD)}	760	29,000,000	27,000 {(C)}	36,000	35,000	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	2,500 {(C)}	{ID}	2,500 {(C)}	58	1,200,000	1,800	1,500	1,300	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	2,700 {(C)}	{ID}	2,700 {(C)}	100	60,000,000	2,700 {(C)}	70,000	53,000	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	110,000 {(C)}	34	73,000	42	170,000,000	110,000 {(C)}	200,000	160,000	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	8,300	280	0.1 {(M)}	74	0.22	58,000	35	31	17	17	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	220	4 {(X)}	400 {(C)}	0.1	470,000	8.4	230	99	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	mg/kg	760	360	{NA}	760 {(C)}	1.5	240,000	580	540	540	540	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	280	{ID}	490	1.6 {(W)}	110,000	6.4	57	31	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	870 {(C)}	{ID}	870 {(C)}	1.6 {(W)}	3,600,000	770	3,100	3,100	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	1.6	140	57	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	280 {(C)}	{ID}	280 {(C,DD)}	46	21,000,000	140	19,000	8,000	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	92	0.9 {(X)}	390 {(C)}	0.1	170,000	0.99	79	34	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	260 {(C)}	0.5	260 {(C)}	2	2,100,000	220	2,100	1,100	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	950 {(C)}	22 {(X)}	950 {(C)}	34	290,000,000	950 {(C)}	280,000	120,000	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	1,500 {(C)}	7	1,500 {(C)}	1.6 {(W)}	1,600,000	38	790	340	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	22	2,600,000	10	2,500	1,000	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	640 {(C)}	12	640 {(C)}	1.4	1,000,000	41	1,000	430	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	5.4	470	200	60	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	360	{ID}	500	1.6 {(W)}	160,000	21	98	80	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	mg/kg	2,000	2,000 {(C)}	{NA}	2,000 {(C)}	4.6	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	1,000 {(C)}	{ID}	1,000 {(C)}	270	1,500,000,000	1,700	1,400,000	550,000	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	7,400 {(C)}	{ID}	7,400 {(C)}	0.2	350,000,000	7,400 {(C)}	350,000	160,000	100,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	140 {(C)}	0.36	140 {(C)}	1.5	13,000,000	140 {(C)}	6,500	3,100	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	79	1,400	1,400	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	390 {(C)}	3.2	390 {(C)}	260	2,600,000	390 {(C)}	3,000	2,000	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	150 {(C)}	130,000	65,000	54,000	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	5,900 {(C)}	140 {(X)}	5,900 {(C)}	0.8	88,000,000	5,900 {(C)}	89,000	41,000	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	2,300 {(C)}	30 {(X)}	2,300 {(C)}	0.1	8,300,000	240	4,000	1,700	700	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	470	350	350	350	{NA}	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	120	{ID}	8,000	4.6	880,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	300	{ID}	8,000	4.6	590,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	150 {(C)}	130,000	65,000	54,000	- -	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	88	{ID}	8,000	4.6	180,000	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	270	2.1 {(X)}	520 {(C)}	2.7	6,900,000	520 {(C)}	4,200	3,300	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	mg/kg	10,000	180	{ID}	8,000	4.6	290,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	88 {(C)}	1.2 {(X)}	88 {(C)}	0.1	1,200,000	21	1,100	490	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	mg/kg	120,000	32,000	220 {(X)}	9,500	5.4	170,000,000	2,400	160,000	67,000	15,000	{NA}	NA	NA	NA	NA	NA	NA	NA

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICl	SDBL	RFI-38-12-28 0.5 - 2 10/30/13	RFI-38-12-29 0.5 - 2 10/30/13	RFI-38-12-30 0.5 - 2 10/30/13	RFI-38-12-31 1 - 2 10/30/13	RFI-38-12-32 0.5 - 2 10/30/13	RFI-38-12-33 0.5 - 2 10/30/13	RFI-38-12-34 1 - 2 10/30/13
Toluene	mg/kg	250	250 {(C)}	5.4	250 {(C)}	16	12,000,000	250 {(C)}	36,000	36,000	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	1,400 {(C)}	30 {(X)}	1,400 {(C)}	2	2,100,000	43	2,000	840	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	5.4	470	200	60	- -	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	440	4 {(X)}	500 {(C,DD)}	0.1	59,000	1.9	58	25	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	560 {(C)}	{NA}	560 {(C)}	150	1,700,000,000	560 {(C)}	140,000,000	140,000,000	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	20	0.26 {(X)}	34	0.04	890,000	2.8	420	170	29	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC																			
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	1,100 {(C)}	34,000	34,000	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	210 {(C)}	55,000	46,000	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	48	110	94	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	100	340	260	260	{NA}	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	9,100	{NA}	73,000	110	10,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	200	0.33 {(M)}	3,300	9.4	1,300,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	960	0.33 {(M)}	1,800 {(C,DD)}	4.2	2,300,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	10,000	7.6	36,000	20	2,100,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	170	{NA}	220	0.64	20,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	2,300	{NA}	180,000	1,800	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	1,900	0.36	4,500	2.6	530,000	800	1,100	1,100	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NLV}	{NLV}	{NLV}	{NLV}	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	1,600	{ID}	2,000	1.2	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NLV}	{NLV}	{NLV}	{NLV}	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	4.6	2 {(M)}	30	2 {(M)}	8,200	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	3,000	0.28	15,000	16	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	970	8.7	130,000	880	6,200,000	350,000	97,000	97,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	440	{ID}	5,200	17	1,000,000	3,000	2,700	2,700	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	41	{ID}	730,000	41	29,000,000	1,000,000 {(D)}	1,600,000	1,600,000	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	1,900	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	{NLL}	7,000	{NLL}	350,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	800	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1 {(M)}	58	0.17	12,000	44	13	13	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	{NLL}	10,000 {(C)}	{NLL}	890,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	310 {(C)}	120 {(X)}	310 {(C)}	310 {(C)}	21,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	{NLL}	8,000	{NLL}	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	1.7	{ID}	{ID}	2,900	3,600	160	160	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	740 {(C)}	2.2	740 {(C)}	320	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	790 {(C)}	{NA}	790 {(C)}	790 {(C)}	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	760 {(C)}	11	760 {(C)}	760 {(C)}	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	140,000 {(C)}	{ID}	20,000	140,000 {(C)}	14,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	730	5.5	130,000	730	4,100,000	1,000,000 {(D)}	880,000	880,000	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	890	5.3	87,000	890	4,100,000	1,000,000 {(D)}	150,000	150,000	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	8.2	0.35	37	1.8	8,500	220	56	56	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	350 {(C)}	0.091	350 {(C)}	72	180,000	350 {(C)}	460	460	460	{NA}	NA	NA	NA	NA	NA	NA	NA

Table 2A
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Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-12-28 0.5 - 2 10/30/13	RFI-38-12-29 0.5 - 2 10/30/13	RFI-38-12-30 0.5 - 2 10/30/13	RFI-38-12-31 1 - 2 10/30/13	RFI-38-12-32 0.5 - 2 10/30/13	RFI-38-12-33 0.5 - 2 10/30/13	RFI-38-12-34 1 - 2 10/30/13
Hexachlorocyclopentadiene	mg/kg	720	720 {(C)}	{ID}	720 {(C)}	320	5,900	56	60	60	60	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	79	1,400	1,400	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	2,400 {(C)}	26 {(X)}	2,400 {(C)}	62	8,200,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	470	350	350	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	220	3.6 {(X)}	340	0.33 {(M)}	21,000	170	64	64	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	{NA}	5.4	0.33 {(M)}	2,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	700	{NA}	7,800	22	2,800,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	4.3	26.5 {(G,X)}	320	0.022	130,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	1,100	2.1	5,200	160	2,900	5,100	190	190	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	12,000 {(C)}	9	12,000 {(C,DD)}	260	18,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	480	{ID}	84,000	480	2,900,000	1,000,000 {(D)}	780,000	780,000	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB																			
Aroclor-1016	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
TPH																			
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Inorganic																			
Antimony	mg/kg	{NA}	49,000	94 {(X)}	670	4.3	5,900	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	2,000	4.6	37	4.6	910	- -	- -	- -	- -	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	1,000,000	858 {(G)}	130,000	1,300	150,000	- -	- -	- -	- -	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,000,000	408 {(G)}	1,600	51	590	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	230,000	5.74 {(G,X)}	2,100	6	2,200	- -	- -	- -	- -	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	{NA}	1,000,000 {(D)}	4,960,000	1,000,000 {(D)}	1,000,000 {(D)}	150,000	{NLV}	{NLV}	{NLV}	{NLV}	18	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	48,000	2	9,000	2	5,900	- -	- -	- -	- -	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	1,000,000	124 {(G)}	73,000	5,800	59,000	- -	- -	- -	- -	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	0.1	250	4	250	- -	- -	- -	- -	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	- -	5,450 {(G,X)}	900	700	44,000	- -	- -	- -	- -	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	180,000	95.3 {(G,X)}	90,000	1	1,500	- -	- -	- -	- -	440	**1,410**	**1,700**	**881**	**515**	**2,450**	**1,150**	**846**
Mercury	mg/kg	{NA}	47	0.05 {(M)}	580	1.7	8,800	89	62	62	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	1,000,000	129 {(G)}	150,000	100	16,000	- -	- -	- -	- -	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	78,000	0.4	9,600	4	59,000	- -	- -	- -	- -	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	200,000	0.1 {(M)}	9,000	13	2,900	- -	- -	- -	- -	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	15,000	4.2 {(X)}	130	2.3	5,900	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	1,000,000	430	5,500	990	- -	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	1,000,000	280 {(G)}	630,000	5,000	- -	- -	- -	- -	- -	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																			
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	870,000	910,000	890,000	890,000	900,000	880,000	880,000

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-12-35 0.5 - 2 10/30/13	RFI-38-12-36 0.5 - 2 10/30/13	RFI-38-12-37 0.5 - 2 10/30/13	RFI-BG-08 0 - 2 08/29/02	RFI-BG-08-2 0.6 - 2 10/12/12	RFI-BG-09 0 - 2 08/29/02	RFI-BG-09-2 0.5 - 1 10/11/12
VOC																			
1,1,1,2-Tetrachloroethane	mg/kg	440	440 {(C)}	{ID}	440 {(C)}	6.4	530,000	33	330	210	120	{NA}	NA	NA	NA	NA	<0.1	NA	<0.1
1,1,1-Trichloroethane	mg/kg	460	460 {(C)}	1.8	460 {(C)}	4	29,000,000	460	31,000	15,000	4,500	{NA}	NA	NA	NA	NA	<0.07	NA	<0.07
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6 {(X)}	240	0.7	68,000	23	34	34	34	{NA}	NA	NA	NA	NA	<0.07	NA	<0.07
1,1,2-Trichloroethane	mg/kg	920	420	6.6 {(X)}	840	0.1	250,000	24	120	57	57	{NA}	NA	NA	NA	NA	<0.07	NA	<0.07
1,1-Dichloroethane	mg/kg	890	890 {(C)}	15	890 {(C)}	50	15,000,000	430	14,000	6,000	2,500	{NA}	NA	NA	NA	NA	<0.07	NA	<0.07
1,1-Dichloroethene	mg/kg	570	220	2.6	570 {(C)}	0.14	78,000	0.33	37	15	3.7	{NA}	NA	NA	NA	NA	<0.07	NA	<0.07
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	<0.46	NA	<0.49
1,2,3-Trichloropropane	mg/kg	830	830 {(C)}	{NA}	830 {(C)}	2.4	8,800	7.5	12	11	11	{NA}	NA	NA	NA	NA	<0.1	NA	<0.1
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	<0.1	NA	<0.1
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	1,100 {(C)}	34,000	34,000	34,000	{NA}	NA	NA	NA	NA	<0.46	NA	<0.49
1,2,4-Trimethylbenzene	mg/kg	110	110 {(C)}	0.57	110 {(C)}	2.1	36,000,000	110 {(C)}	600,000	600,000	25,000	{NA}	NA	NA	NA	NA	<0.1	NA	<0.1
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	<0.4	NA	<0.4
1,2-Dibromoethane	mg/kg	890	0.5	0.11 {(X)}	0.43	0.02 {(M)}	18,000	3.6	9.8	5.8	5.8	{NA}	NA	NA	NA	NA	**<0.03 M**	NA	**<0.03 M**
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	210 {(C)}	55,000	46,000	46,000	{NA}	NA	NA	NA	NA	<0.1	NA	<0.1
1,2-Dichloroethane	mg/kg	1,200	380	7.2 {(X)}	420	0.1	150,000	11	74	33	21	{NA}	NA	NA	NA	NA	<0.07	NA	<0.07
1,2-Dichloropropane	mg/kg	550	320	4.6 {(X)}	550 {(C)}	0.1	120,000	7.4	120	51	30	{NA}	NA	NA	NA	NA	<0.07	NA	<0.07
1,3,5-Trimethylbenzene	mg/kg	94	94 {(C)}	1.1	94 {(C)}	1.8	36,000,000	94 {(C)}	460,000	460,000	19,000	{NA}	NA	NA	NA	NA	<0.1	NA	<0.1
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	48	110	94	94	{NA}	NA	NA	NA	NA	<0.1	NA	<0.1
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	100	340	260	260	{NA}	NA	NA	NA	NA	<0.1	NA	<0.1
2-Butanone	mg/kg	27,000	27,000 {(C)}	44	27,000 {(C,DD)}	760	29,000,000	27,000 {(C)}	36,000	35,000	35,000	{NA}	NA	NA	NA	NA	<1.1	NA	<1.1
2-Hexanone	mg/kg	2,500	2,500 {(C)}	{ID}	2,500 {(C)}	58	1,200,000	1,800	1,500	1,300	1,300	{NA}	NA	NA	NA	NA	<4	NA	<4
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	{NA}	NA	NA	NA	NA	<0.46	NA	<0.49
4-Methyl-2-pentanone	mg/kg	2,700	2,700 {(C)}	{ID}	2,700 {(C)}	100	60,000,000	2,700 {(C)}	70,000	53,000	53,000	{NA}	NA	NA	NA	NA	<4	NA	<4
Acetone	mg/kg	110,000	110,000 {(C)}	34	73,000	42	170,000,000	110,000 {(C)}	200,000	160,000	160,000	{NA}	NA	NA	NA	NA	<1	NA	<1
Acrylonitrile	mg/kg	8,300	280	0.1 {(M)}	74	0.22	58,000	35	31	17	17	{NA}	NA	NA	NA	NA	<0.1	NA	<0.1
Benzene	mg/kg	400	220	4 {(X)}	400 {(C)}	0.1	470,000	8.4	230	99	45	{NA}	NA	NA	NA	NA	<0.07	NA	<0.07
Bromobenzene	mg/kg	760	360	{NA}	760 {(C)}	1.5	240,000	580	540	540	540	{NA}	NA	NA	NA	NA	<0.1	NA	<0.1
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	<0.1	NA	<0.1
Bromodichloromethane	mg/kg	1,500	280	{ID}	490	1.6 {(W)}	110,000	6.4	57	31	31	{NA}	NA	NA	NA	NA	<0.1	NA	<0.1
Bromoform	mg/kg	870	870 {(C)}	{ID}	870 {(C)}	1.6 {(W)}	3,600,000	770	3,100	3,100	3,100	{NA}	NA	NA	NA	NA	<0.1	NA	<0.1
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	1.6	140	57	13	{NA}	NA	NA	NA	NA	<0.3	NA	<0.3
Carbon Disulfide	mg/kg	280	280 {(C)}	{ID}	280 {(C,DD)}	46	21,000,000	140	19,000	8,000	1,600	{NA}	NA	NA	NA	NA	<0.4	NA	<0.4
Carbon Tetrachloride	mg/kg	390	92	0.9 {(X)}	390 {(C)}	0.1	170,000	0.99	79	34	12	{NA}	NA	NA	NA	NA	<0.07	NA	<0.07
Chlorobenzene	mg/kg	260	260 {(C)}	0.5	260 {(C)}	2	2,100,000	220	2,100	1,100	920	{NA}	NA	NA	NA	NA	<0.07	NA	<0.07
Chloroethane	mg/kg	950	950 {(C)}	22 {(X)}	950 {(C)}	34	290,000,000	950 {(C)}	280,000	120,000	36,000	{NA}	NA	NA	NA	NA	<0.4	NA	<0.4
Chloroform	mg/kg	1,500	1,500 {(C)}	7	1,500 {(C)}	1.6 {(W)}	1,600,000	38	790	340	150	{NA}	NA	NA	NA	NA	<0.07	NA	<0.07
Chloromethane	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	22	2,600,000	10	2,500	1,000	120	{NA}	NA	NA	NA	NA	<0.4	NA	<0.4
cis-1,2-Dichloroethene	mg/kg	640	640 {(C)}	12	640 {(C)}	1.4	1,000,000	41	1,000	430	210	{NA}	NA	NA	NA	NA	<0.07	NA	<0.07
cis-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	5.4	470	200	60	- -	NA	NA	NA	NA	<0.07	NA	<0.07
Dibromochloromethane	mg/kg	610	360	{ID}	500	1.6 {(W)}	160,000	21	98	80	80	{NA}	NA	NA	NA	NA	<0.1	NA	<0.1
Dibromomethane	mg/kg	2,000	2,000 {(C)}	{NA}	2,000 {(C)}	4.6	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	<0.4	NA	<0.4
Dichlorodifluoromethane	mg/kg	1,000	1,000 {(C)}	{ID}	1,000 {(C)}	270	1,500,000,000	1,700	1,400,000	550,000	63,000	{NA}	NA	NA	NA	NA	<0.4	NA	<0.4
Diethyl ether	mg/kg	7,400	7,400 {(C)}	{ID}	7,400 {(C)}	0.2	350,000,000	7,400 {(C)}	350,000	160,000	100,000	{NA}	NA	NA	NA	NA	**<0.3**	NA	**<0.3**
Ethylbenzene	mg/kg	140	140 {(C)}	0.36	140 {(C)}	1.5	13,000,000	140 {(C)}	6,500	3,100	2,400	{NA}	NA	NA	NA	NA	<0.07	NA	<0.07
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	79	1,400	1,400	660	{NA}	NA	NA	NA	NA	<0.4	NA	<0.4
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	<0.1	NA	<0.1
Isopropylbenzene	mg/kg	390	390 {(C)}	3.2	390 {(C)}	260	2,600,000	390 {(C)}	3,000	2,000	2,000	{NA}	NA	NA	NA	NA	<0.4	NA	<0.4
m&p-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	150 {(C)}	130,000	65,000	54,000	- -	NA	NA	NA	NA	<0.1	NA	<0.1
Methyl tert-butyl ether	mg/kg	5,900	5,900 {(C)}	140 {(X)}	5,900 {(C)}	0.8	88,000,000	5,900 {(C)}	89,000	41,000	30,000	{NA}	NA	NA	NA	NA	<0.3	NA	<0.3
Methylene Chloride	mg/kg	2,300	2,300 {(C)}	30 {(X)}	2,300 {(C)}	0.1	8,300,000	240	4,000	1,700	700	{NA}	NA	NA	NA	NA	<0.1	NA	<0.1
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	470	350	350	350	{NA}	NA	NA	NA	NA	<0.46	NA	<0.49
n-Butylbenzene	mg/kg	10,000	120	{ID}	8,000	4.6	880,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	<0.07	NA	<0.07
n-Propylbenzene	mg/kg	10,000	300	{ID}	8,000	4.6	590,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	<0.1	NA	<0.1
o-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	150 {(C)}	130,000	65,000	54,000	- -	NA	NA	NA	NA	<0.07	NA	<0.07
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	<0.1	NA	<0.1
sec-Butylbenzene	mg/kg	10,000	88	{ID}	8,000	4.6	180,000	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	<0.07	NA	<0.07
Styrene	mg/kg	520	270	2.1 {(X)}	520 {(C)}	2.7	6,900,000	520 {(C)}	4,200	3,300	3,300	{NA}	NA	NA	NA	NA	<0.07	NA	<0.07
tert-Butylbenzene	mg/kg	10,000	180	{ID}	8,000	4.6	290,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	<0.07	NA	<0.07
Tetrachloroethene	mg/kg	88	88 {(C)}	1.2 {(X)}	88 {(C)}	0.1	1,200,000	21	1,100	490	210	{NA}	NA	NA	NA	NA	<0.07	NA	<0.07
Tetrahydrofuran	mg/kg	120,000	32,000	220 {(X)}	9,500	5.4	170,000,000	2,400	160,000	67,000	15,000	{NA}	NA	NA	NA	NA	<1	NA	<1

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-12-35 0.5 - 2 10/30/13	RFI-38-12-36 0.5 - 2 10/30/13	RFI-38-12-37 0.5 - 2 10/30/13	RFI-BG-08 0 - 2 08/29/02	RFI-BG-08-2 0.6 - 2 10/12/12	RFI-BG-09 0 - 2 08/29/02	RFI-BG-09-2 0.5 - 1 10/11/12
Toluene	mg/kg	250	250 {(C)}	5.4	250 {(C)}	16	12,000,000	250 {(C)}	36,000	36,000	3,300	{NA}	NA	NA	NA	NA	<0.1	NA	<0.1
trans-1,2-Dichloroethene	mg/kg	1,400	1,400 {(C)}	30 {(X)}	1,400 {(C)}	2	2,100,000	43	2,000	840	330	{NA}	NA	NA	NA	NA	<0.07	NA	<0.07
trans-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	5.4	470	200	60	- -	NA	NA	NA	NA	<0.07	NA	<0.07
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	<0.07	NA	<0.07
Trichloroethene	mg/kg	500	440	4 {(X)}	500 {(C,DD)}	0.1	59,000	1.9	58	25	14	{NA}	NA	NA	NA	NA	<0.07	NA	<0.07
Trichlorofluoromethane	mg/kg	560	560 {(C)}	{NA}	560 {(C)}	150	1,700,000,000	560 {(C)}	140,000,000	140,000,000	110,000	{NA}	NA	NA	NA	NA	<0.1	NA	<0.1
Vinyl Chloride	mg/kg	490	20	0.26 {(X)}	34	0.04	890,000	2.8	420	170	29	{NA}	NA	NA	NA	NA	**<0.07**	NA	**<0.07**
SVOC																			
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	1,100 {(C)}	34,000	34,000	34,000	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	210 {(C)}	55,000	46,000	46,000	{NA}	NA	NA	NA	NA	**<0.33**	NA	**<0.33**
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	<0.33	NA	<0.33
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	48	110	94	94	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	100	340	260	260	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	<0.33	NA	<0.33
2,4,5-Trichlorophenol	mg/kg	{NA}	9,100	{NA}	73,000	110	10,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
2,4,6-Trichlorophenol	mg/kg	{NA}	200	0.33 {(M)}	3,300	9.4	1,300,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
2,4-Dichlorophenol	mg/kg	1,800	960	0.33 {(M)}	1,800 {(C,DD)}	4.2	2,300,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
2,4-Dimethylphenol	mg/kg	{NA}	10,000	7.6	36,000	20	2,100,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	<0.83	NA	<0.83
2,4-Dinitrotoluene	mg/kg	{NA}	170	{NA}	220	0.64	20,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	<0.33	NA	<0.33
2-Chloronaphthalene	mg/kg	{NA}	2,300	{NA}	180,000	1,800	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
2-Chlorophenol	mg/kg	19,000	1,900	0.36	4,500	2.6	530,000	800	1,100	1,100	1,100	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
2-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NLV}	{NLV}	{NLV}	{NLV}	- -	NA	NA	NA	NA	<0.33	NA	<0.33
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	<0.83	NA	<0.83
2-Nitrophenol	mg/kg	{NA}	1,600	{ID}	2,000	1.2	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
3&4-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NLV}	{NLV}	{NLV}	{NLV}	- -	NA	NA	NA	NA	<0.33	NA	<0.33
3,3'-Dichlorobenzidine	mg/kg	{NA}	4.6	2 {(M)}	30	2 {(M)}	8,200	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	<2	NA	<2
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	<0.83	NA	<0.83
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	<0.83	NA	<0.83
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	<0.33	NA	<0.33
4-Chloro-3-Methylphenol	mg/kg	{NA}	3,000	0.28	15,000	16	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	<0.28	NA	<0.28
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	<0.33	NA	<0.33
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	<0.33	NA	<0.33
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	<0.83	NA	<0.83
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	<0.83	NA	<0.83
Acenaphthene	mg/kg	{NA}	970	8.7	130,000	880	6,200,000	350,000	97,000	97,000	97,000	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Acenaphthylene	mg/kg	{NA}	440	{ID}	5,200	17	1,000,000	3,000	2,700	2,700	2,700	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Anthracene	mg/kg	{NA}	41	{ID}	730,000	41	29,000,000	1,000,000 {(D)}	1,600,000	1,600,000	1,600,000	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	1,900	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	{NLL}	7,000	{NLL}	350,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	800	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	<0.33	NA	<0.33
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1 {(M)}	58	0.17	12,000	44	13	13	13	{NA}	NA	NA	NA	NA	**<0.33**	NA	**<0.33**
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	{NLL}	10,000 {(C)}	{NLL}	890,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Butylbenzylphthalate	mg/kg	310	310 {(C)}	120 {(X)}	310 {(C)}	310 {(C)}	21,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Chrysene	mg/kg	{NA}	{NLL}	{NLL}	8,000	{NLL}	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Dibenzofuran	mg/kg	{NA}	{ID}	1.7	{ID}	{ID}	2,900	3,600	160	160	160	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Diethylphthalate	mg/kg	740	740 {(C)}	2.2	740 {(C)}	320	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Dimethylphthalate	mg/kg	790	790 {(C)}	{NA}	790 {(C)}	790 {(C)}	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Di-n-Butylphthalate	mg/kg	760	760 {(C)}	11	760 {(C)}	760 {(C)}	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Di-n-Octylphthalate	mg/kg	140,000	140,000 {(C)}	{ID}	20,000	140,000 {(C)}	14,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Fluoranthene	mg/kg	{NA}	730	5.5	130,000	730	4,100,000	1,000,000 {(D)}	880,000	880,000	890,000	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Fluorene	mg/kg	{NA}	890	5.3	87,000	890	4,100,000	1,000,000 {(D)}	150,000	150,000	150,000	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Hexachlorobenzene	mg/kg	{NA}	8.2	0.35	37	1.8	8,500	220	56	56	56	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Hexachlorobutadiene	mg/kg	350	350 {(C)}	0.091	350 {(C)}	72	180,000	350 {(C)}	460	460	460	{NA}	NA	NA	NA	NA	**<0.33**	NA	**<0.33**

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-12-35 0.5 - 2 10/30/13	RFI-38-12-36 0.5 - 2 10/30/13	RFI-38-12-37 0.5 - 2 10/30/13	RFI-BG-08 0 - 2 08/29/02	RFI-BG-08-2 0.6 - 2 10/12/12	RFI-BG-09 0 - 2 08/29/02	RFI-BG-09-2 0.5 - 1 10/11/12
Hexachlorocyclopentadiene	mg/kg	720	720 {(C)}	{ID}	720 {(C)}	320	5,900	56	60	60	60	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	79	1,400	1,400	660	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Isophorone	mg/kg	2,400	2,400 {(C)}	26 {(X)}	2,400 {(C)}	62	8,200,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	470	350	350	350	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Nitrobenzene	mg/kg	490	220	3.6 {(X)}	340	0.33 {(M)}	21,000	170	64	64	64	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	{NA}	5.4	0.33 {(M)}	2,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
N-Nitrosodiphenylamine	mg/kg	{NA}	700	{NA}	7,800	22	2,800,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Pentachlorophenol	mg/kg	{NA}	4.3	26.5 {(G,X)}	320	0.022	130,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	**<0.33**	NA	**<0.33**
Phenanthrene	mg/kg	{NA}	1,100	2.1	5,200	160	2,900	5,100	190	190	190	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Phenol	mg/kg	12,000	12,000 {(C)}	9	12,000 {(C,DD)}	260	18,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
Pyrene	mg/kg	{NA}	480	{ID}	84,000	480	2,900,000	1,000,000 {(D)}	780,000	780,000	780,000	{NA}	NA	NA	NA	NA	<0.33	NA	<0.33
PCB																			
Aroclor-1016	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	<0.33	NA	<0.33
Aroclor-1221	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	<0.33	NA	<0.33
Aroclor-1232	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	<0.33	NA	<0.33
Aroclor-1242	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	<0.33	NA	<0.33
Aroclor-1248	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	<0.33	NA	<0.33
Aroclor-1254	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	<0.33	NA	<0.33
Aroclor-1260	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	<0.33	NA	<0.33
TPH																			
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Inorganic																			
Antimony	mg/kg	{NA}	49,000	94 {(X)}	670	4.3	5,900	- -	- -	- -	- -	{NA}	NA	NA	NA	0.027 J	<0.5	0.013 J	<0.5
Arsenic	mg/kg	{NA}	2,000	4.6	37	4.6	910	- -	- -	- -	- -	5.8	NA	NA	NA	**8.5 J**	3.01	**6.5 J**	1.05
Barium	mg/kg	{NA}	1,000,000	858 {(G)}	130,000	1,300	150,000	- -	- -	- -	- -	75	NA	NA	NA	**80 J**	35.1	60 J	**89.6**
Beryllium	mg/kg	{NA}	1,000,000	408 {(G)}	1,600	51	590	- -	- -	- -	- -	{NA}	NA	NA	NA	0.42	0.32	0.47	0.64
Cadmium	mg/kg	{NA}	230,000	5.74 {(G,X)}	2,100	6	2,200	- -	- -	- -	- -	1.2	NA	NA	NA	0.34 J	<0.2	0.33 J	<0.2
Chromium Total	mg/kg	{NA}	1,000,000 {(D)}	4,960,000	1,000,000 {(D)}	1,000,000 {(D)}	150,000	{NLV}	{NLV}	{NLV}	{NLV}	18	NA	NA	NA	16 J	4.83	16 J	6.71
Cobalt	mg/kg	{NA}	48,000	2	9,000	2	5,900	- -	- -	- -	- -	6.8	NA	NA	NA	**6.7 J**	**11.3**	**6.4 J**	**11.6**
Copper	mg/kg	{NA}	1,000,000	124 {(G)}	73,000	5,800	59,000	- -	- -	- -	- -	32	NA	NA	NA	13 J	5.23	17 J	5.35
Cyanide (total)	mg/kg	{NA}	250	0.1	250	4	250	- -	- -	- -	- -	0.39 {(total)}	NA	NA	NA	NA	<0.1	NA	<0.1
Lead	mg/kg	{NA}	- -	5,450 {(G,X)}	900	700	44,000	- -	- -	- -	- -	21	NA	NA	NA	**30 J**	9.49	**45 J**	11.5
Manganese	mg/kg	{NA}	180,000	95.3 {(G,X)}	90,000	1	1,500	- -	- -	- -	- -	440	**897**	**1,120**	**2,040**	**500**	**481**	**380**	**537**
Mercury	mg/kg	{NA}	47	0.05 {(M)}	580	1.7	8,800	89	62	62	62	0.13	NA	NA	NA	**0.0556 J**	<0.05	**0.0761**	<0.05
Nickel	mg/kg	{NA}	1,000,000	129 {(G)}	150,000	100	16,000	- -	- -	- -	- -	20	NA	NA	NA	14 J	15.6	19 J	16.5
Selenium	mg/kg	{NA}	78,000	0.4	9,600	4	59,000	- -	- -	- -	- -	0.41	NA	NA	NA	0.039 J	<0.4	0.051 J	<0.4
Silver	mg/kg	{NA}	200,000	0.1 {(M)}	9,000	13	2,900	- -	- -	- -	- -	1	NA	NA	NA	0.094 J	<0.1	0.086 J	<0.1
Thallium	mg/kg	{NA}	15,000	4.2 {(X)}	130	2.3	5,900	- -	- -	- -	- -	{NA}	NA	NA	NA	0.15 J	<0.2	0.16 J	<0.2
Vanadium	mg/kg	{NA}	1,000,000	430	5,500	990	- -	- -	- -	- -	- -	{NA}	NA	NA	NA	24 J	NA	22 J	NA
Zinc	mg/kg	{NA}	1,000,000	280 {(G)}	630,000	5,000	- -	- -	- -	- -	- -	47	NA	NA	NA	**85 J**	12.3	**87 J**	18.1
Miscellaneous																			
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	920,000	850,000	870,000	924,000	820,000	894,000	840,000

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Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICl	SDBL	RFI-BG-10 0 - 2 08/29/02	RFI-BG-10-2 0 - 2 03/22/13	RFI-BG-10-2 0.6 - 1 10/11/12	RFI-BG-10-2 3 - 5 03/22/13	RFI-BG-10-3 0 - 2 03/22/13	RFI-BG-10-3 3 - 5 03/22/13	RFI-BG-10-4 0 - 2 03/22/13
VOC																			
1,1,1,2-Tetrachloroethane	mg/kg	440	440 {(C)}	{ID}	440 {(C)}	6.4	530,000	33	330	210	120	{NA}	NA	NA	<0.1	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	460 {(C)}	1.8	460 {(C)}	4	29,000,000	460	31,000	15,000	4,500	{NA}	NA	NA	<0.07	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6 {(X)}	240	0.7	68,000	23	34	34	34	{NA}	NA	NA	<0.07	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	420	6.6 {(X)}	840	0.1	250,000	24	120	57	57	{NA}	NA	NA	<0.07	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	890 {(C)}	15	890 {(C)}	50	15,000,000	430	14,000	6,000	2,500	{NA}	NA	NA	<0.07	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	220	2.6	570 {(C)}	0.14	78,000	0.33	37	15	3.7	{NA}	NA	NA	<0.07	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.43	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	830 {(C)}	{NA}	830 {(C)}	2.4	8,800	7.5	12	11	11	{NA}	NA	NA	<0.1	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.1	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	1,100 {(C)}	34,000	34,000	34,000	{NA}	NA	NA	<0.43	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	110 {(C)}	0.57	110 {(C)}	2.1	36,000,000	110 {(C)}	600,000	600,000	25,000	{NA}	NA	NA	<0.1	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.3	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.5	0.11 {(X)}	0.43	0.02 {(M)}	18,000	3.6	9.8	5.8	5.8	{NA}	NA	NA	**<0.03 M**	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	210 {(C)}	55,000	46,000	46,000	{NA}	NA	NA	<0.1	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	380	7.2 {(X)}	420	0.1	150,000	11	74	33	21	{NA}	NA	NA	<0.07	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	320	4.6 {(X)}	550 {(C)}	0.1	120,000	7.4	120	51	30	{NA}	NA	NA	<0.07	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	94 {(C)}	1.1	94 {(C)}	1.8	36,000,000	94 {(C)}	460,000	460,000	19,000	{NA}	NA	NA	<0.1	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	48	110	94	94	{NA}	NA	NA	<0.1	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	100	340	260	260	{NA}	NA	NA	<0.1	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	27,000 {(C)}	44	27,000 {(C,DD)}	760	29,000,000	27,000 {(C)}	36,000	35,000	35,000	{NA}	NA	NA	<0.98	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	2,500 {(C)}	{ID}	2,500 {(C)}	58	1,200,000	1,800	1,500	1,300	1,300	{NA}	NA	NA	<3	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	{NA}	NA	NA	<0.43	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	2,700 {(C)}	{ID}	2,700 {(C)}	100	60,000,000	2,700 {(C)}	70,000	53,000	53,000	{NA}	NA	NA	<3	NA	NA	NA	NA
Acetone	mg/kg	110,000	110,000 {(C)}	34	73,000	42	170,000,000	110,000 {(C)}	200,000	160,000	160,000	{NA}	NA	NA	<1	NA	NA	NA	NA
Acrylonitrile	mg/kg	8,300	280	0.1 {(M)}	74	0.22	58,000	35	31	17	17	{NA}	NA	NA	<0.1	NA	NA	NA	NA
Benzene	mg/kg	400	220	4 {(X)}	400 {(C)}	0.1	470,000	8.4	230	99	45	{NA}	NA	NA	<0.07	NA	NA	NA	NA
Bromobenzene	mg/kg	760	360	{NA}	760 {(C)}	1.5	240,000	580	540	540	540	{NA}	NA	NA	<0.1	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.1	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	280	{ID}	490	1.6 {(W)}	110,000	6.4	57	31	31	{NA}	NA	NA	<0.1	NA	NA	NA	NA
Bromoform	mg/kg	870	870 {(C)}	{ID}	870 {(C)}	1.6 {(W)}	3,600,000	770	3,100	3,100	3,100	{NA}	NA	NA	<0.1	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	1.6	140	57	13	{NA}	NA	NA	<0.3	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	280 {(C)}	{ID}	280 {(C,DD)}	46	21,000,000	140	19,000	8,000	1,600	{NA}	NA	NA	<0.3	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	92	0.9 {(X)}	390 {(C)}	0.1	170,000	0.99	79	34	12	{NA}	NA	NA	<0.07	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	260 {(C)}	0.5	260 {(C)}	2	2,100,000	220	2,100	1,100	920	{NA}	NA	NA	<0.07	NA	NA	NA	NA
Chloroethane	mg/kg	950	950 {(C)}	22 {(X)}	950 {(C)}	34	290,000,000	950 {(C)}	280,000	120,000	36,000	{NA}	NA	NA	<0.3	NA	NA	NA	NA
Chloroform	mg/kg	1,500	1,500 {(C)}	7	1,500 {(C)}	1.6 {(W)}	1,600,000	38	790	340	150	{NA}	NA	NA	<0.07	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	22	2,600,000	10	2,500	1,000	120	{NA}	NA	NA	<0.3	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	640 {(C)}	12	640 {(C)}	1.4	1,000,000	41	1,000	430	210	{NA}	NA	NA	<0.07	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	5.4	470	200	60	- -	NA	NA	<0.07	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	360	{ID}	500	1.6 {(W)}	160,000	21	98	80	80	{NA}	NA	NA	<0.1	NA	NA	NA	NA
Dibromomethane	mg/kg	2,000	2,000 {(C)}	{NA}	2,000 {(C)}	4.6	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	<0.3	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	1,000 {(C)}	{ID}	1,000 {(C)}	270	1,500,000,000	1,700	1,400,000	550,000	63,000	{NA}	NA	NA	<0.3	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	7,400 {(C)}	{ID}	7,400 {(C)}	0.2	350,000,000	7,400 {(C)}	350,000	160,000	100,000	{NA}	NA	NA	**<0.3**	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	140 {(C)}	0.36	140 {(C)}	1.5	13,000,000	140 {(C)}	6,500	3,100	2,400	{NA}	NA	NA	<0.07	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	79	1,400	1,400	660	{NA}	NA	NA	<0.4	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.1	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	390 {(C)}	3.2	390 {(C)}	260	2,600,000	390 {(C)}	3,000	2,000	2,000	{NA}	NA	NA	<0.3	NA	NA	NA	NA
m&p-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	150 {(C)}	130,000	65,000	54,000	- -	NA	NA	<0.1	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	5,900 {(C)}	140 {(X)}	5,900 {(C)}	0.8	88,000,000	5,900 {(C)}	89,000	41,000	30,000	{NA}	NA	NA	<0.3	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	2,300 {(C)}	30 {(X)}	2,300 {(C)}	0.1	8,300,000	240	4,000	1,700	700	{NA}	NA	NA	<0.1	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	470	350	350	350	{NA}	NA	NA	<0.43	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	120	{ID}	8,000	4.6	880,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	<0.07	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	300	{ID}	8,000	4.6	590,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	<0.1	NA	NA	NA	NA
o-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	150 {(C)}	130,000	65,000	54,000	- -	NA	NA	<0.07	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.1	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	88	{ID}	8,000	4.6	180,000	- -	- -	- -	- -	{NA}	NA	NA	<0.07	NA	NA	NA	NA
Styrene	mg/kg	520	270	2.1 {(X)}	520 {(C)}	2.7	6,900,000	520 {(C)}	4,200	3,300	3,300	{NA}	NA	NA	<0.07	NA	NA	NA	NA
tert-Butylbenzene	mg/kg	10,000	180	{ID}	8,000	4.6	290,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	<0.07	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	88 {(C)}	1.2 {(X)}	88 {(C)}	0.1	1,200,000	21	1,100	490	210	{NA}	NA	NA	<0.07	NA	NA	NA	NA
Tetrahydrofuran	mg/kg	120,000	32,000	220 {(X)}	9,500	5.4	170,000,000	2,400	160,000	67,000	15,000	{NA}	NA	NA	<1	NA	NA	NA	NA

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICl	SDBL	RFI-BG-10 0 - 2 08/29/02	RFI-BG-10-2 0 - 2 03/22/13	RFI-BG-10-2 0.6 - 1 10/11/12	RFI-BG-10-2 3 - 5 03/22/13	RFI-BG-10-3 0 - 2 03/22/13	RFI-BG-10-3 3 - 5 03/22/13	RFI-BG-10-4 0 - 2 03/22/13
Toluene	mg/kg	250	250 {(C)}	5.4	250 {(C)}	16	12,000,000	250 {(C)}	36,000	36,000	3,300	{NA}	NA	NA	<0.1	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	1,400 {(C)}	30 {(X)}	1,400 {(C)}	2	2,100,000	43	2,000	840	330	{NA}	NA	NA	<0.07	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	5.4	470	200	60	- -	NA	NA	<0.07	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.07	NA	NA	NA	NA
Trichloroethene	mg/kg	500	440	4 {(X)}	500 {(C,DD)}	0.1	59,000	1.9	58	25	14	{NA}	NA	NA	<0.07	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	560 {(C)}	{NA}	560 {(C)}	150	1,700,000,000	560 {(C)}	140,000,000	140,000,000	110,000	{NA}	NA	NA	<0.1	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	20	0.26 {(X)}	34	0.04	890,000	2.8	420	170	29	{NA}	NA	NA	**<0.07**	NA	NA	NA	NA
SVOC																			
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	1,100 {(C)}	34,000	34,000	34,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	210 {(C)}	55,000	46,000	46,000	{NA}	NA	NA	**<0.33**	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.33	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	48	110	94	94	{NA}	NA	NA	<0.33	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	100	340	260	260	{NA}	NA	NA	<0.33	NA	NA	NA	NA
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.33	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	9,100	{NA}	73,000	110	10,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	200	0.33 {(M)}	3,300	9.4	1,300,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	960	0.33 {(M)}	1,800 {(C,DD)}	4.2	2,300,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	10,000	7.6	36,000	20	2,100,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.83	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	170	{NA}	220	0.64	20,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.33	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	2,300	{NA}	180,000	1,800	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	1,900	0.36	4,500	2.6	530,000	800	1,100	1,100	1,100	{NA}	NA	NA	<0.33	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	{NA}	NA	NA	<0.33	NA	NA	NA	NA
2-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NLV}	{NLV}	{NLV}	{NLV}	- -	NA	NA	<0.33	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.83	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	1,600	{ID}	2,000	1.2	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NLV}	{NLV}	{NLV}	{NLV}	- -	NA	NA	<0.33	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	4.6	2 {(M)}	30	2 {(M)}	8,200	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	<2	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.83	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.83	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.33	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	3,000	0.28	15,000	16	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	<0.28	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.33	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.33	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.83	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.83	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	970	8.7	130,000	880	6,200,000	350,000	97,000	97,000	97,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	440	{ID}	5,200	17	1,000,000	3,000	2,700	2,700	2,700	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	41	{ID}	730,000	41	29,000,000	1,000,000 {(D)}	1,600,000	1,600,000	1,600,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	1,900	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	{NLL}	7,000	{NLL}	350,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	800	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.33	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1 {(M)}	58	0.17	12,000	44	13	13	13	{NA}	NA	NA	**<0.33**	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	{NLL}	10,000 {(C)}	{NLL}	890,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	310 {(C)}	120 {(X)}	310 {(C)}	310 {(C)}	21,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	{NLL}	8,000	{NLL}	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	1.7	{ID}	{ID}	2,900	3,600	160	160	160	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	740 {(C)}	2.2	740 {(C)}	320	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	790 {(C)}	{NA}	790 {(C)}	790 {(C)}	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	760 {(C)}	11	760 {(C)}	760 {(C)}	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	140,000 {(C)}	{ID}	20,000	140,000 {(C)}	14,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	730	5.5	130,000	730	4,100,000	1,000,000 {(D)}	880,000	880,000	890,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	890	5.3	87,000	890	4,100,000	1,000,000 {(D)}	150,000	150,000	150,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	8.2	0.35	37	1.8	8,500	220	56	56	56	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	350 {(C)}	0.091	350 {(C)}	72	180,000	350 {(C)}	460	460	460	{NA}	NA	NA	**<0.33**	NA	NA	NA	NA

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: / Sample Depth(ft): / Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICl	SDBL	RFI-BG-10 0 - 2 08/29/02	RFI-BG-10-2 0 - 2 03/22/13	RFI-BG-10-2 0.6 - 1 10/11/12	RFI-BG-10-2 3 - 5 03/22/13	RFI-BG-10-3 0 - 2 03/22/13	RFI-BG-10-3 3 - 5 03/22/13	RFI-BG-10-4 0 - 2 03/22/13
Hexachlorocyclopentadiene	mg/kg	720	720 {(C)}	{ID}	720 {(C)}	320	5,900	56	60	60	60	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	79	1,400	1,400	660	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Isophorone	mg/kg	2,400	2,400 {(C)}	26 {(X)}	2,400 {(C)}	62	8,200,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	470	350	350	350	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	220	3.6 {(X)}	340	0.33 {(M)}	21,000	170	64	64	64	{NA}	NA	NA	<0.33	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	{NA}	5.4	0.33 {(M)}	2,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	700	{NA}	7,800	22	2,800,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	4.3	26.5 {(G,X)}	320	0.022	130,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	**<0.33**	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	1,100	2.1	5,200	160	2,900	5,100	190	190	190	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Phenol	mg/kg	12,000	12,000 {(C)}	9	12,000 {(C,DD)}	260	18,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	<0.33	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	480	{ID}	84,000	480	2,900,000	1,000,000 {(D)}	780,000	780,000	780,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA
PCB																			
Aroclor-1016	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	<0.33	NA	NA	NA	NA
Aroclor-1221	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	<0.33	NA	NA	NA	NA
Aroclor-1232	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	<0.33	NA	NA	NA	NA
Aroclor-1242	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	<0.33	NA	NA	NA	NA
Aroclor-1248	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	<0.33	NA	NA	NA	NA
Aroclor-1254	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	<0.33	NA	NA	NA	NA
Aroclor-1260	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	<0.33	NA	NA	NA	NA
TPH																			
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Inorganic																			
Antimony	mg/kg	{NA}	49,000	94 {(X)}	670	4.3	5,900	- -	- -	- -	- -	{NA}	0.042 J	NA	<0.5	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	2,000	4.6	37	4.6	910	- -	- -	- -	- -	5.8	**5.5 J**	NA	1.29	NA	NA	NA	NA
Barium	mg/kg	{NA}	1,000,000	858 {(G)}	130,000	1,300	150,000	- -	- -	- -	- -	75	**150 J**	NA	23.1	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,000,000	408 {(G)}	1,600	51	590	- -	- -	- -	- -	{NA}	0.89	NA	<0.2	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	230,000	5.74 {(G,X)}	2,100	6	2,200	- -	- -	- -	- -	1.2	1.1	NA	<0.2	NA	NA	NA	NA
Chromium Total	mg/kg	{NA}	1,000,000 {(D)}	4,960,000	1,000,000 {(D)}	1,000,000 {(D)}	150,000	{NLV}	{NLV}	{NLV}	{NLV}	18	**47 J**	NA	11.7	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	48,000	2	9,000	2	5,900	- -	- -	- -	- -	6.8	**3.8 J**	NA	**11.5**	NA	NA	NA	NA
Copper	mg/kg	{NA}	1,000,000	124 {(G)}	73,000	5,800	59,000	- -	- -	- -	- -	32	29 J	NA	9	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	0.1	250	4	250	- -	- -	- -	- -	0.39 {(total)}	NA	NA	<0.1	NA	NA	NA	NA
Lead	mg/kg	{NA}	- -	5,450 {(G,X)}	900	700	44,000	- -	- -	- -	- -	21	**190 J**	NA	8.36	NA	NA	NA	NA
Manganese	mg/kg	{NA}	180,000	95.3 {(G,X)}	90,000	1	1,500	- -	- -	- -	- -	440	**2,100**	**1,470**	**366**	**527**	**300**	**472**	**708**
Mercury	mg/kg	{NA}	47	0.05 {(M)}	580	1.7	8,800	89	62	62	62	0.13	0.0265 J	NA	<0.05	NA	NA	NA	NA
Nickel	mg/kg	{NA}	1,000,000	129 {(G)}	150,000	100	16,000	- -	- -	- -	- -	20	17 J	NA	9.25	NA	NA	NA	NA
Selenium	mg/kg	{NA}	78,000	0.4	9,600	4	59,000	- -	- -	- -	- -	0.41	0.12 J	NA	<0.4	NA	NA	NA	NA
Silver	mg/kg	{NA}	200,000	0.1 {(M)}	9,000	13	2,900	- -	- -	- -	- -	1	**0.26 J**	NA	<0.1	NA	NA	NA	NA
Thallium	mg/kg	{NA}	15,000	4.2 {(X)}	130	2.3	5,900	- -	- -	- -	- -	{NA}	0.1 J	NA	<0.2	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	1,000,000	430	5,500	990	- -	- -	- -	- -	- -	{NA}	14 J	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	1,000,000	280 {(G)}	630,000	5,000	- -	- -	- -	- -	- -	47	**720 J**	NA	14.9	NA	NA	NA	NA
Miscellaneous																			
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	935,000	920,000	880,000	850,000	940,000	920,000	890,000

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-BG-10-4 3 - 5 03/22/13	RFI-BG-10-5 0 - 2 03/22/13	RFI-BG-10-5 3 - 5 03/22/13	RFI-BG-10-6 0 - 2 03/22/13	RFI-BG-10-6 3 - 5 03/22/13	RFI-BG-10-8 0.3 - 2 10/30/13	RFI-BG-10-9 0.3 - 2 10/30/13
VOC																			
1,1,1,2-Tetrachloroethane	mg/kg	440	440 {(C)}	{ID}	440 {(C)}	6.4	530,000	33	330	210	120	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	460 {(C)}	1.8	460 {(C)}	4	29,000,000	460	31,000	15,000	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6 {(X)}	240	0.7	68,000	23	34	34	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	420	6.6 {(X)}	840	0.1	250,000	24	120	57	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	890 {(C)}	15	890 {(C)}	50	15,000,000	430	14,000	6,000	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	220	2.6	570 {(C)}	0.14	78,000	0.33	37	15	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	830 {(C)}	{NA}	830 {(C)}	2.4	8,800	7.5	12	11	11	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	1,100 {(C)}	34,000	34,000	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	110 {(C)}	0.57	110 {(C)}	2.1	36,000,000	110 {(C)}	600,000	600,000	25,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.5	0.11 {(X)}	0.43	0.02 {(M)}	18,000	3.6	9.8	5.8	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	210 {(C)}	55,000	46,000	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	380	7.2 {(X)}	420	0.1	150,000	11	74	33	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	320	4.6 {(X)}	550 {(C)}	0.1	120,000	7.4	120	51	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	94 {(C)}	1.1	94 {(C)}	1.8	36,000,000	94 {(C)}	460,000	460,000	19,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	48	110	94	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	100	340	260	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	27,000 {(C)}	44	27,000 {(C,DD)}	760	29,000,000	27,000 {(C)}	36,000	35,000	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	2,500 {(C)}	{ID}	2,500 {(C)}	58	1,200,000	1,800	1,500	1,300	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	2,700 {(C)}	{ID}	2,700 {(C)}	100	60,000,000	2,700 {(C)}	70,000	53,000	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	110,000 {(C)}	34	73,000	42	170,000,000	110,000 {(C)}	200,000	160,000	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	8,300	280	0.1 {(M)}	74	0.22	58,000	35	31	17	17	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	220	4 {(X)}	400 {(C)}	0.1	470,000	8.4	230	99	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	mg/kg	760	360	{NA}	760 {(C)}	1.5	240,000	580	540	540	540	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	280	{ID}	490	1.6 {(W)}	110,000	6.4	57	31	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	870 {(C)}	{ID}	870 {(C)}	1.6 {(W)}	3,600,000	770	3,100	3,100	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	1.6	140	57	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	280 {(C)}	{ID}	280 {(C,DD)}	46	21,000,000	140	19,000	8,000	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	92	0.9 {(X)}	390 {(C)}	0.1	170,000	0.99	79	34	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	260 {(C)}	0.5	260 {(C)}	2	2,100,000	220	2,100	1,100	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	950 {(C)}	22 {(X)}	950 {(C)}	34	290,000,000	950 {(C)}	280,000	120,000	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	1,500 {(C)}	7	1,500 {(C)}	1.6 {(W)}	1,600,000	38	790	340	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	22	2,600,000	10	2,500	1,000	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	640 {(C)}	12	640 {(C)}	1.4	1,000,000	41	1,000	430	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	5.4	470	200	60	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	360	{ID}	500	1.6 {(W)}	160,000	21	98	80	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	mg/kg	2,000	2,000 {(C)}	{NA}	2,000 {(C)}	4.6	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	1,000 {(C)}	{ID}	1,000 {(C)}	270	1,500,000,000	1,700	1,400,000	550,000	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	7,400 {(C)}	{ID}	7,400 {(C)}	0.2	350,000,000	7,400 {(C)}	350,000	160,000	100,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	140 {(C)}	0.36	140 {(C)}	1.5	13,000,000	140 {(C)}	6,500	3,100	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	79	1,400	1,400	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	390 {(C)}	3.2	390 {(C)}	260	2,600,000	390 {(C)}	3,000	2,000	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	150 {(C)}	130,000	65,000	54,000	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	5,900 {(C)}	140 {(X)}	5,900 {(C)}	0.8	88,000,000	5,900 {(C)}	89,000	41,000	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	2,300 {(C)}	30 {(X)}	2,300 {(C)}	0.1	8,300,000	240	4,000	1,700	700	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	470	350	350	350	{NA}	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	120	{ID}	8,000	4.6	880,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	300	{ID}	8,000	4.6	590,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	150 {(C)}	130,000	65,000	54,000	- -	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	88	{ID}	8,000	4.6	180,000	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	270	2.1 {(X)}	520 {(C)}	2.7	6,900,000	520 {(C)}	4,200	3,300	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	mg/kg	10,000	180	{ID}	8,000	4.6	290,000	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	88 {(C)}	1.2 {(X)}	88 {(C)}	0.1	1,200,000	21	1,100	490	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	mg/kg	120,000	32,000	220 {(X)}	9,500	5.4	170,000,000	2,400	160,000	67,000	15,000	{NA}	NA	NA	NA	NA	NA	NA	NA

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-BG-10-4 3 - 5 03/22/13	RFI-BG-10-5 0 - 2 03/22/13	RFI-BG-10-5 3 - 5 03/22/13	RFI-BG-10-6 0 - 2 03/22/13	RFI-BG-10-6 3 - 5 03/22/13	RFI-BG-10-8 0.3 - 2 10/30/13	RFI-BG-10-9 0.3 - 2 10/30/13
Toluene	mg/kg	250	250 {(C)}	5.4	250 {(C)}	16	12,000,000	250 {(C)}	36,000	36,000	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	1,400 {(C)}	30 {(X)}	1,400 {(C)}	2	2,100,000	43	2,000	840	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	5.4	470	200	60	- -	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	440	4 {(X)}	500 {(C,DD)}	0.1	59,000	1.9	58	25	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	560 {(C)}	{NA}	560 {(C)}	150	1,700,000,000	560 {(C)}	140,000,000	140,000,000	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	20	0.26 {(X)}	34	0.04	890,000	2.8	420	170	29	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC																			
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	1,100 {(C)}	34,000	34,000	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	210 {(C)}	55,000	46,000	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	48	110	94	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	100	340	260	260	{NA}	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	9,100	{NA}	73,000	110	10,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	200	0.33 {(M)}	3,300	9.4	1,300,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	960	0.33 {(M)}	1,800 {(C,DD)}	4.2	2,300,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	10,000	7.6	36,000	20	2,100,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	170	{NA}	220	0.64	20,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	2,300	{NA}	180,000	1,800	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	1,900	0.36	4,500	2.6	530,000	800	1,100	1,100	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NLV}	{NLV}	{NLV}	{NLV}	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	1,600	{ID}	2,000	1.2	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NLV}	{NLV}	{NLV}	{NLV}	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	4.6	2 {(M)}	30	2 {(M)}	8,200	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	3,000	0.28	15,000	16	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	970	8.7	130,000	880	6,200,000	350,000	97,000	97,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	440	{ID}	5,200	17	1,000,000	3,000	2,700	2,700	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	41	{ID}	730,000	41	29,000,000	1,000,000 {(D)}	1,600,000	1,600,000	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	1,900	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	{NLL}	7,000	{NLL}	350,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	800	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1 {(M)}	58	0.17	12,000	44	13	13	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	{NLL}	10,000 {(C)}	{NLL}	890,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	310 {(C)}	120 {(X)}	310 {(C)}	310 {(C)}	21,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	{NLL}	8,000	{NLL}	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	1.7	{ID}	{ID}	2,900	3,600	160	160	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	740 {(C)}	2.2	740 {(C)}	320	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	790 {(C)}	{NA}	790 {(C)}	790 {(C)}	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	760 {(C)}	11	760 {(C)}	760 {(C)}	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	140,000 {(C)}	{ID}	20,000	140,000 {(C)}	14,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	730	5.5	130,000	730	4,100,000	1,000,000 {(D)}	880,000	880,000	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	890	5.3	87,000	890	4,100,000	1,000,000 {(D)}	150,000	150,000	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	8.2	0.35	37	1.8	8,500	220	56	56	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	350 {(C)}	0.091	350 {(C)}	72	180,000	350 {(C)}	460	460	460	{NA}	NA	NA	NA	NA	NA	NA	NA

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-BG-10-4 3 - 5 03/22/13	RFI-BG-10-5 0 - 2 03/22/13	RFI-BG-10-5 3 - 5 03/22/13	RFI-BG-10-6 0 - 2 03/22/13	RFI-BG-10-6 3 - 5 03/22/13	RFI-BG-10-8 0.3 - 2 10/30/13	RFI-BG-10-9 0.3 - 2 10/30/13
Hexachlorocyclopentadiene	mg/kg	720	720 {(C)}	{ID}	720 {(C)}	320	5,900	56	60	60	60	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	79	1,400	1,400	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	2,400 {(C)}	26 {(X)}	2,400 {(C)}	62	8,200,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	470	350	350	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	220	3.6 {(X)}	340	0.33 {(M)}	21,000	170	64	64	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	{NA}	5.4	0.33 {(M)}	2,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	700	{NA}	7,800	22	2,800,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	4.3	26.5 {(G,X)}	320	0.022	130,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	1,100	2.1	5,200	160	2,900	5,100	190	190	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	12,000 {(C)}	9	12,000 {(C,DD)}	260	18,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	480	{ID}	84,000	480	2,900,000	1,000,000 {(D)}	780,000	780,000	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB																			
Aroclor-1016	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA	NA	NA
TPH																			
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Inorganic																			
Antimony	mg/kg	{NA}	49,000	94 {(X)}	670	4.3	5,900	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	2,000	4.6	37	4.6	910	- -	- -	- -	- -	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	1,000,000	858 {(G)}	130,000	1,300	150,000	- -	- -	- -	- -	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,000,000	408 {(G)}	1,600	51	590	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	230,000	5.74 {(G,X)}	2,100	6	2,200	- -	- -	- -	- -	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	{NA}	1,000,000 {(D)}	4,960,000	1,000,000 {(D)}	1,000,000 {(D)}	150,000	{NLV}	{NLV}	{NLV}	{NLV}	18	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	48,000	2	9,000	2	5,900	- -	- -	- -	- -	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	1,000,000	124 {(G)}	73,000	5,800	59,000	- -	- -	- -	- -	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	0.1	250	4	250	- -	- -	- -	- -	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	- -	5,450 {(G,X)}	900	700	44,000	- -	- -	- -	- -	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	180,000	95.3 {(G,X)}	90,000	1	1,500	- -	- -	- -	- -	440	**128**	**447**	**646**	**284**	**569**	**631**	**1,240**
Mercury	mg/kg	{NA}	47	0.05 {(M)}	580	1.7	8,800	89	62	62	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	1,000,000	129 {(G)}	150,000	100	16,000	- -	- -	- -	- -	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	78,000	0.4	9,600	4	59,000	- -	- -	- -	- -	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	200,000	0.1 {(M)}	9,000	13	2,900	- -	- -	- -	- -	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	15,000	4.2 {(X)}	130	2.3	5,900	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	1,000,000	430	5,500	990	- -	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	1,000,000	280 {(G)}	630,000	5,000	- -	- -	- -	- -	- -	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																			
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	770,000	880,000	900,000	890,000	880,000	900,000	910,000

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: / Sample Depth(ft): / Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	SB-38-01 1 - 2 09/05/13	SB-38-02 2 - 3 09/05/13	SB-38-03 6 - 7 09/05/13	SB-38-04 2 - 3 09/05/13	SB-38-05 3 - 3.5 09/05/13	SB-38-06 7 - 9 09/05/13
VOC																		
1,1,1,2-Tetrachloroethane	mg/kg	440	440 {(C)}	{ID}	440 {(C)}	6.4	530,000	33	330	210	120	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-Trichloroethane	mg/kg	460	460 {(C)}	1.8	460 {(C)}	4	29,000,000	460	31,000	15,000	4,500	{NA}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6 {(X)}	240	0.7	68,000	23	34	34	34	{NA}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
1,1,2-Trichloroethane	mg/kg	920	420	6.6 {(X)}	840	0.1	250,000	24	120	57	57	{NA}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
1,1-Dichloroethane	mg/kg	890	890 {(C)}	15	890 {(C)}	50	15,000,000	430	14,000	6,000	2,500	{NA}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
1,1-Dichloroethene	mg/kg	570	220	2.6	570 {(C)}	0.14	78,000	0.33	37	15	3.7	{NA}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.38	<0.39	<0.38	<0.41	<0.41	<0.47
1,2,3-Trichloropropane	mg/kg	830	830 {(C)}	{NA}	830 {(C)}	2.4	8,800	7.5	12	11	11	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	1,100 {(C)}	34,000	34,000	34,000	{NA}	<0.38	<0.39	<0.38	<0.41	<0.41	<0.47
1,2,4-Trimethylbenzene	mg/kg	110	110 {(C)}	0.57	110 {(C)}	2.1	36,000,000	110 {(C)}	600,000	600,000	25,000	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.3	<0.3	<0.3	<0.3	<0.3	<0.4
1,2-Dibromoethane	mg/kg	890	0.5	0.11 {(X)}	0.43	0.02 {(M)}	18,000	3.6	9.8	5.8	5.8	{NA}	<0.02 M	<0.02 M	<0.02 M	<0.02 M	<0.02 M	**<0.03 M**
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	210 {(C)}	55,000	46,000	46,000	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-Dichloroethane	mg/kg	1,200	380	7.2 {(X)}	420	0.1	150,000	11	74	33	21	{NA}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
1,2-Dichloropropane	mg/kg	550	320	4.6 {(X)}	550 {(C)}	0.1	120,000	7.4	120	51	30	{NA}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
1,3,5-Trimethylbenzene	mg/kg	94	94 {(C)}	1.1	94 {(C)}	1.8	36,000,000	94 {(C)}	460,000	460,000	19,000	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	48	110	94	94	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	100	340	260	260	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Butanone	mg/kg	27,000	27,000 {(C)}	44	27,000 {(C,DD)}	760	29,000,000	27,000 {(C)}	36,000	35,000	35,000	{NA}	<0.87	<0.88	<0.86	<0.93	<0.93	<1.1
2-Hexanone	mg/kg	2,500	2,500 {(C)}	{ID}	2,500 {(C)}	58	1,200,000	1,800	1,500	1,300	1,300	{NA}	<3	<3	<3	<3	<3	<4
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	{NA}	<0.38	<0.39	<0.38	<0.41	<0.41	2.26
4-Methyl-2-pentanone	mg/kg	2,700	2,700 {(C)}	{ID}	2,700 {(C)}	100	60,000,000	2,700 {(C)}	70,000	53,000	53,000	{NA}	<3	<3	<3	<3	<3	<4
Acetone	mg/kg	110,000	110,000 {(C)}	34	73,000	42	170,000,000	110,000 {(C)}	200,000	160,000	160,000	{NA}	<1	<1	<1	<1	<1	<1
Acrylonitrile	mg/kg	8,300	280	0.1 {(M)}	74	0.22	58,000	35	31	17	17	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzene	mg/kg	400	220	4 {(X)}	400 {(C)}	0.1	470,000	8.4	230	99	45	{NA}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
Bromobenzene	mg/kg	760	360	{NA}	760 {(C)}	1.5	240,000	580	540	540	540	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	mg/kg	1,500	280	{ID}	490	1.6 {(W)}	110,000	6.4	57	31	31	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	870	870 {(C)}	{ID}	870 {(C)}	1.6 {(W)}	3,600,000	770	3,100	3,100	3,100	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	1.6	140	57	13	{NA}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3
Carbon Disulfide	mg/kg	280	280 {(C)}	{ID}	280 {(C,DD)}	46	21,000,000	140	19,000	8,000	1,600	{NA}	<0.3	<0.3	<0.3	<0.3	<0.3	<0.4
Carbon Tetrachloride	mg/kg	390	92	0.9 {(X)}	390 {(C)}	0.1	170,000	0.99	79	34	12	{NA}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
Chlorobenzene	mg/kg	260	260 {(C)}	0.5	260 {(C)}	2	2,100,000	220	2,100	1,100	920	{NA}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
Chloroethane	mg/kg	950	950 {(C)}	22 {(X)}	950 {(C)}	34	290,000,000	950 {(C)}	280,000	120,000	36,000	{NA}	<0.3	<0.3	<0.3	<0.3	<0.3	<0.4
Chloroform	mg/kg	1,500	1,500 {(C)}	7	1,500 {(C)}	1.6 {(W)}	1,600,000	38	790	340	150	{NA}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
Chloromethane	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	22	2,600,000	10	2,500	1,000	120	{NA}	<0.3	<0.3	<0.3	<0.3	<0.3	<0.4
cis-1,2-Dichloroethene	mg/kg	640	640 {(C)}	12	640 {(C)}	1.4	1,000,000	41	1,000	430	210	{NA}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
cis-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	5.4	470	200	60	- -	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
Dibromochloromethane	mg/kg	610	360	{ID}	500	1.6 {(W)}	160,000	21	98	80	80	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	2,000	2,000 {(C)}	{NA}	2,000 {(C)}	4.6	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	<0.3	<0.3	<0.3	<0.3	<0.3	<0.4
Dichlorodifluoromethane	mg/kg	1,000	1,000 {(C)}	{ID}	1,000 {(C)}	270	1,500,000,000	1,700	1,400,000	550,000	63,000	{NA}	<0.3	<0.3	<0.3	<0.3	<0.3	<0.4
Diethyl ether	mg/kg	7,400	7,400 {(C)}	{ID}	7,400 {(C)}	0.2	350,000,000	7,400 {(C)}	350,000	160,000	100,000	{NA}	<0.2	<0.2	<0.2	<0.2	<0.2	**<0.3**
Ethylbenzene	mg/kg	140	140 {(C)}	0.36	140 {(C)}	1.5	13,000,000	140 {(C)}	6,500	3,100	2,400	{NA}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	79	1,400	1,400	660	{NA}	<0.3	<0.4	<0.3	<0.4	<0.4	<0.4
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isopropylbenzene	mg/kg	390	390 {(C)}	3.2	390 {(C)}	260	2,600,000	390 {(C)}	3,000	2,000	2,000	{NA}	<0.3	<0.3	<0.3	<0.3	<0.3	<0.4
m&p-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	150 {(C)}	130,000	65,000	54,000	- -	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methyl tert-butyl ether	mg/kg	5,900	5,900 {(C)}	140 {(X)}	5,900 {(C)}	0.8	88,000,000	5,900 {(C)}	89,000	41,000	30,000	{NA}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3
Methylene Chloride	mg/kg	2,300	2,300 {(C)}	30 {(X)}	2,300 {(C)}	0.1	8,300,000	240	4,000	1,700	700	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	470	350	350	350	{NA}	<0.38	<0.39	<0.38	<0.41	<0.41	**1.95**
n-Butylbenzene	mg/kg	10,000	120	{ID}	8,000	4.6	880,000	{ID}	{ID}	{ID}	{ID}	{NA}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
n-Propylbenzene	mg/kg	10,000	300	{ID}	8,000	4.6	590,000	{ID}	{ID}	{ID}	{ID}	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	150 {(C)}	130,000	65,000	54,000	- -	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-Butylbenzene	mg/kg	10,000	88	{ID}	8,000	4.6	180,000	- -	- -	- -	- -	{NA}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
Styrene	mg/kg	520	270	2.1 {(X)}	520 {(C)}	2.7	6,900,000	520 {(C)}	4,200	3,300	3,300	{NA}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
tert-Butylbenzene	mg/kg	10,000	180	{ID}	8,000	4.6	290,000	{ID}	{ID}	{ID}	{ID}	{NA}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
Tetrachloroethene	mg/kg	88	88 {(C)}	1.2 {(X)}	88 {(C)}	0.1	1,200,000	21	1,100	490	210	{NA}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
Tetrahydrofuran	mg/kg	120,000	32,000	220 {(X)}	9,500	5.4	170,000,000	2,400	160,000	67,000	15,000	{NA}	<1	<1	<1	<1	<1	<1

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	SB-38-01 1 - 2 09/05/13	SB-38-02 2 - 3 09/05/13	SB-38-03 6 - 7 09/05/13	SB-38-04 2 - 3 09/05/13	SB-38-05 3 - 3.5 09/05/13	SB-38-06 7 - 9 09/05/13
Toluene	mg/kg	250	250 {(C)}	5.4	250 {(C)}	16	12,000,000	250 {(C)}	36,000	36,000	3,300	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,2-Dichloroethene	mg/kg	1,400	1,400 {(C)}	30 {(X)}	1,400 {(C)}	2	2,100,000	43	2,000	840	330	{NA}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
trans-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	5.4	470	200	60	- -	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
Trichloroethene	mg/kg	500	440	4 {(X)}	500 {(C,DD)}	0.1	59,000	1.9	58	25	14	{NA}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
Trichlorofluoromethane	mg/kg	560	560 {(C)}	{NA}	560 {(C)}	150	1,700,000,000	560 {(C)}	140,000,000	140,000,000	110,000	{NA}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl Chloride	mg/kg	490	20	0.26 {(X)}	34	0.04	890,000	2.8	420	170	29	{NA}	**<0.06**	**<0.06**	**<0.06**	**<0.06**	**<0.06**	**<0.07**
SVOC																		
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	1,100 {(C)}	34,000	34,000	34,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	210 {(C)}	55,000	46,000	46,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	48	110	94	94	{NA}	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	100	340	260	260	{NA}	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.3	<0.3	<0.3	<0.3	<0.3	3.9 Y
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	9,100	{NA}	73,000	110	10,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	200	0.33 {(M)}	3,300	9.4	1,300,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	960	0.33 {(M)}	1,800 {(C,DD)}	4.2	2,300,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	10,000	7.6	36,000	20	2,100,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	170	{NA}	220	0.64	20,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	2,300	{NA}	180,000	1,800	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	1,900	0.36	4,500	2.6	530,000	800	1,100	1,100	1,100	{NA}	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	{NA}	<0.3	<0.3	<0.3	<0.3	<0.3	**4.5 Y**
2-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NLV}	{NLV}	{NLV}	{NLV}	- -	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	1,600	{ID}	2,000	1.2	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NLV}	{NLV}	{NLV}	{NLV}	- -	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	4.6	2 {(M)}	30	2 {(M)}	8,200	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	3,000	0.28	15,000	16	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	970	8.7	130,000	880	6,200,000	350,000	97,000	97,000	97,000	{NA}	<0.3	<0.3	<0.3	<0.3	<0.3	**16.9 Y**
Acenaphthylene	mg/kg	{NA}	440	{ID}	5,200	17	1,000,000	3,000	2,700	2,700	2,700	{NA}	<0.3	<0.3	<0.3	<0.3	<0.3	5.6 Y
Anthracene	mg/kg	{NA}	41	{ID}	730,000	41	29,000,000	1,000,000 {(D)}	1,600,000	1,600,000	1,600,000	{NA}	<0.3	<0.3	<0.3	0.9	<0.3	**41.9 Y**
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.3	<0.3	<0.3	2.6	<0.3	**122.2 Y**
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	1,900	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.3	<0.3	<0.3	2.5	<0.3	**125.8 Y**
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	<0.3	<0.3	<0.3	4.4 p	<0.3	**218.1 Yp**
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	{NLL}	7,000	{NLL}	350,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.3	<0.3	<0.3	1.5	<0.3	53.4 Y
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	800	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.3	<0.3	<0.3	4.8 p	<0.3	242.5 Yp
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1 {(M)}	58	0.17	12,000	44	13	13	13	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	{NLL}	10,000 {(C)}	{NLL}	890,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	310 {(C)}	120 {(X)}	310 {(C)}	310 {(C)}	21,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	{NLL}	8,000	{NLL}	{ID}	{ID}	{ID}	{ID}	{ID}	{NA}	<0.3	<0.3	<0.3	3	<0.3	133.5 Y
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.3	<0.3	<0.3	0.6	<0.3	**26.3 Y**
Dibenzofuran	mg/kg	{NA}	{ID}	1.7	{ID}	{ID}	2,900	3,600	160	160	160	{NA}	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	740 {(C)}	2.2	740 {(C)}	320	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	790 {(C)}	{NA}	790 {(C)}	790 {(C)}	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	760 {(C)}	11	760 {(C)}	760 {(C)}	1,500,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	140,000 {(C)}	{ID}	20,000	140,000 {(C)}	14,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	730	5.5	130,000	730	4,100,000	1,000,000 {(D)}	880,000	880,000	890,000	{NA}	<0.3	<0.3	<0.3	**6**	<0.3	**255.6 Y**
Fluorene	mg/kg	{NA}	890	5.3	87,000	890	4,100,000	1,000,000 {(D)}	150,000	150,000	150,000	{NA}	<0.3	<0.3	<0.3	0.5	<0.3	**20.9 Y**
Hexachlorobenzene	mg/kg	{NA}	8.2	0.35	37	1.8	8,500	220	56	56	56	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	350 {(C)}	0.091	350 {(C)}	72	180,000	350 {(C)}	460	460	460	{NA}	NA	NA	NA	NA	NA	NA

Table 2A
Summary of 2012 - 2013 Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	SB-38-01 1 - 2 09/05/13	SB-38-02 2 - 3 09/05/13	SB-38-03 6 - 7 09/05/13	SB-38-04 2 - 3 09/05/13	SB-38-05 3 - 3.5 09/05/13	SB-38-06 7 - 9 09/05/13
Hexachlorocyclopentadiene	mg/kg	720	720 {(C)}	{ID}	720 {(C)}	320	5,900	56	60	60	60	{NA}	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	79	1,400	1,400	660	{NA}	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	<0.3	<0.3	<0.3	1.4	<0.3	54.1 Y
Isophorone	mg/kg	2,400	2,400 {(C)}	26 {(X)}	2,400 {(C)}	62	8,200,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	470	350	350	350	{NA}	<0.3	<0.3	<0.3	<0.3	<0.3	**4.6 Y**
Nitrobenzene	mg/kg	490	220	3.6 {(X)}	340	0.33 {(M)}	21,000	170	64	64	64	{NA}	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	{NA}	5.4	0.33 {(M)}	2,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	700	{NA}	7,800	22	2,800,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	4.3	26.5 {(G,X)}	320	0.022	130,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	1,100	2.1	5,200	160	2,900	5,100	190	190	190	{NA}	<0.3	<0.3	<0.3	**5.6**	<0.3	**177.9 Y**
Phenol	mg/kg	12,000	12,000 {(C)}	9	12,000 {(C,DD)}	260	18,000,000	{NLV}	{NLV}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	480	{ID}	84,000	480	2,900,000	1,000,000 {(D)}	780,000	780,000	780,000	{NA}	<0.3	<0.3	<0.3	4.6	<0.3	212.7 Y
PCB																		
Aroclor-1016	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Aroclor-1221	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Aroclor-1232	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Aroclor-1242	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Aroclor-1248	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Aroclor-1254	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Aroclor-1260	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	16,000	28,000	28,000	810	- -	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
TPH																		
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<4	65 Y	11	285 YS	201 YS	570 Y
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<4	70 Y	21	NA	NA	754 Y
Inorganic																		
Antimony	mg/kg	{NA}	49,000	94 {(X)}	670	4.3	5,900	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	2,000	4.6	37	4.6	910	- -	- -	- -	- -	5.8	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	1,000,000	858 {(G)}	130,000	1,300	150,000	- -	- -	- -	- -	75	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,000,000	408 {(G)}	1,600	51	590	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	230,000	5.74 {(G,X)}	2,100	6	2,200	- -	- -	- -	- -	1.2	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	{NA}	1,000,000 {(D)}	4,960,000	1,000,000 {(D)}	1,000,000 {(D)}	150,000	{NLV}	{NLV}	{NLV}	{NLV}	18	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	48,000	2	9,000	2	5,900	- -	- -	- -	- -	6.8	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	1,000,000	124 {(G)}	73,000	5,800	59,000	- -	- -	- -	- -	32	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	0.1	250	4	250	- -	- -	- -	- -	0.39 {(total)}	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	- -	5,450 {(G,X)}	900	700	44,000	- -	- -	- -	- -	21	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	180,000	95.3 {(G,X)}	90,000	1	1,500	- -	- -	- -	- -	440	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	47	0.05 {(M)}	580	1.7	8,800	89	62	62	62	0.13	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	1,000,000	129 {(G)}	150,000	100	16,000	- -	- -	- -	- -	20	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	78,000	0.4	9,600	4	59,000	- -	- -	- -	- -	0.41	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	200,000	0.1 {(M)}	9,000	13	2,900	- -	- -	- -	- -	1	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	15,000	4.2 {(X)}	130	2.3	5,900	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	1,000,000	430	5,500	990	- -	- -	- -	- -	- -	{NA}	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	1,000,000	280 {(G)}	630,000	5,000	- -	- -	- -	- -	- -	47	NA	NA	NA	NA	NA	NA
Miscellaneous																		
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	910,000	940,000	930,000	910,000	910,000	840,000

Table 2B
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-36-02 1 - 3 09/17/01	RFI-36-02 7 - 9 09/17/01	RFI-36-02 9 - 11 09/17/01	RFI-36-02 13 - 15 09/17/01	RFI-38-01 0.5 - 2.5 07/23/01	RFI-38-01 8.5 - 10.5 07/23/01
VOC																		
1,1,1,2-Tetrachloroethane	mg/kg	440	440	- -	440	6.4	530,000	33	330	210	120	- -	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	460	1.8	460	4	29,000,000	460	31,000	15,000	4,500	- -	0.037 U	0.044 U	0.037 U [0.036 U]	0.037 U	0.038 U	0.037 U
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6	240	0.7	68,000	23	34	34	34	- -	0.075 U	0.087 U	0.074 U [0.071 U]	0.074 U	0.076 U	0.075 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	550	1.7	550	550	2,300,000,000	550	2,100,000	890,000	210,000	- -	0.16 U	0.19 U	0.16 U [0.15 U]	0.16 U	0.16 U	0.16 U
1,1,2-Trichloroethane	mg/kg	920	420	6.6	840	0.1	250,000	24	120	57	57	- -	0.037 U	0.044 U	0.037 U [0.036 U]	0.037 U	0.038 U	0.037 U
1,1-Dichloroethane	mg/kg	890	890	15	890	50	15,000,000	430	14,000	6,000	2,500	- -	0.037 U	0.044 U	0.037 U [0.036 U]	0.037 U	0.038 U	0.037 U
1,1-Dichloroethene	mg/kg	570	220	2.6	570	0.14	78,000	0.33	37	15	3.7	- -	0.037 U	0.044 U	0.037 U [0.036 U]	0.037 U	0.038 U	0.037 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	830	- -	830	2.4	8,800	7.5	12	11	11	- -	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100	5.9	1,100	4.2	11,000,000	1,100	34,000	34,000	34,000	- -	0.16 U	0.19 U	0.16 U [0.15 U]	0.16 U	0.16 U	0.16 U
1,2,4-Trimethylbenzene	mg/kg	110	110	0.57	110	2.1	36,000,000	110	600,000	600,000	25,000	- -	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.16 U	0.19 U	0.16 U [0.15 U]	0.16 U	0.16 U	0.16 U
1,2-Dibromoethane	mg/kg	890	0.5	0.11	0.43	0.02	18,000	3.6	9.8	5.8	5.8	- -	0.16 U	0.19 U	0.16 U [0.15 U]	0.16 U	0.16 U	0.16 U
1,2-Dichlorobenzene	mg/kg	210	210	0.28	210	14	44,000,000	210	55,000	46,000	46,000	- -	0.075 U	0.087 U	0.074 U [0.071 U]	0.074 U	0.076 U	0.075 U
1,2-Dichloroethane	mg/kg	1,200	380	7.2	420	0.1	150,000	11	74	33	21	- -	0.037 U	0.044 U	0.037 U [0.036 U]	0.037 U	0.038 U	0.037 U
1,2-Dichloropropane	mg/kg	550	320	4.6	550	0.1	120,000	7.4	120	51	30	- -	0.037 U	0.044 U	0.037 U [0.036 U]	0.037 U	0.038 U	0.037 U
1,3,5-Trimethylbenzene	mg/kg	94	94	1.1	94	1.8	36,000,000	94	460,000	460,000	19,000	- -	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170	0.48	88,000	48	110	94	94	- -	0.075 U	0.087 U	0.074 U [0.071 U]	0.074 U	0.076 U	0.075 U
1,4-Dichlorobenzene	mg/kg	- -	140	0.36	1,900	1.7	570,000	100	340	260	260	- -	0.075 U	0.087 U	0.074 U [0.071 U]	0.074 U	0.076 U	0.075 U
2-Butanone	mg/kg	27,000	27,000	44	27,000	760	29,000,000	27,000	36,000	35,000	35,000	- -	0.27 UJ	0.31 UJ	0.26 UJ [0.25 UJ]	0.27 UJ	0.031 J	0.27 U
2-Hexanone	mg/kg	2,500	2,500	- -	2,500	58	1,200,000	1,800	1,500	1,300	1,300	- -	0.27 U	0.31 U	0.26 U [0.25 U]	0.27 U	0.27 U	0.27 U
2-Methylnaphthalene	mg/kg	- -	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	- -	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	2,700	- -	2,700	100	60,000,000	2,700	70,000	53,000	53,000	- -	0.27 U	0.31 U	0.26 U [0.25 U]	0.27 U	0.27 U	0.27 U
Acetone	mg/kg	110,000	110,000	34	73,000	42	170,000,000	110,000	200,000	160,000	160,000	- -	0.27 UJ	0.31 UJ	0.26 UJ [0.25 UJ]	0.27 UJ	0.36 UJ	0.27 UJ
Acrylonitrile	mg/kg	8,300	280	0.1	74	0.22	58,000	35	31	17	17	- -	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	220	4	400	0.1	470,000	8.4	230	99	45	- -	0.037 U	0.044 U	0.037 U [0.036 U]	0.037 U	0.038 U	0.037 U
Bromobenzene	mg/kg	760	360	- -	760	1.5	240,000	580	540	540	540	- -	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	280	- -	490	1.6	110,000	6.4	57	31	31	- -	0.075 U	0.087 U	0.074 U [0.071 U]	0.074 U	0.076 U	0.075 U
Bromoform	mg/kg	870	870	- -	870	1.6	3,600,000	770	3,100	3,100	3,100	- -	0.075 U	0.087 U	0.074 U [0.071 U]	0.074 U	0.076 U	0.075 U
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	1.6	140	57	13	- -	0.16 U	0.19 U	0.16 U [0.15 U]	0.16 U	0.16 U	0.16 U
Carbon Disulfide	mg/kg	280	280	- -	280	46	21,000,000	140	19,000	8,000	1,600	- -	0.16 U	0.19 U	0.16 U [0.15 U]	0.16 U	0.16 U	0.16 U
Carbon Tetrachloride	mg/kg	390	92	0.9	390	0.1	170,000	0.99	79	34	12	- -	0.037 U	0.044 U	0.037 U [0.036 U]	0.037 U	0.038 U	0.037 U
Chlorobenzene	mg/kg	260	260	0.5	260	2	2,100,000	220	2,100	1,100	920	- -	0.037 U	0.044 U	0.037 U [0.036 U]	0.037 U	0.038 U	0.037 U
Chloroethane	mg/kg	950	950	22	950	34	290,000,000	950	280,000	120,000	36,000	- -	0.16 U	0.19 U	0.16 U [0.15 U]	0.16 U	0.16 U	0.16 U
Chloroform	mg/kg	1,500	1,500	7	1,500	1.6	1,600,000	38	790	340	150	- -	0.037 U	0.044 U	0.037 U [0.036 U]	0.037 U	0.038 U	0.037 U
Chloromethane	mg/kg	1,100	1,100	- -	1,100	22	2,600,000	10	2,500	1,000	120	- -	0.16 U	0.19 U	0.16 U [0.15 U]	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	640	12	640	1.4	1,000,000	41	1,000	430	210	- -	0.037 U	0.044 U	0.037 U [0.036 U]	0.037 U	0.038 U	0.037 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.037 U	0.044 U	0.037 U [0.036 U]	0.037 U	0.038 U	0.037 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.16 U	0.19 U	0.16 U [0.15 U]	0.16 U	0.16 U	0.16 U
Dibromochloromethane	mg/kg	610	360	- -	500	1.6	160,000	21	98	80	80	- -	0.075 U	0.087 U	0.074 U [0.071 U]	0.074 U	0.076 U	0.075 U
Dibromomethane	mg/kg	2,000	2,000	- -	2,000	4.6	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	1,000	- -	1,000	270	1,500,000,000	1,700	1,400,000	550,000	63,000	- -	0.075 U	0.087 U	0.074 U [0.071 U]	0.074 U	0.076 U	0.075 U
Diethyl ether	mg/kg	7,400	7,400	- -	7,400	0.2	350,000,000	7,400	350,000	160,000	100,000	- -	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	140	0.36	140	1.5	13,000,000	140	6,500	3,100	2,400	- -	0.037 U	0.044 U	0.037 U [0.036 U]	0.037 U	0.038 U	0.037 U
Hexachloroethane	mg/kg	- -	110	1.8	730	1.2	100,000	79	1,400	1,400	660	- -	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	390	3.2	390	260	2,600,000	390	3,000	2,000	2,000	- -	0.16 U	0.19 U	0.16 U [0.15 U]	0.16 U	0.16 U	0.16 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.075 U	0.087 U	0.074 U [0.071 U]	0.074 U	0.076 U	0.075 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.16 U	0.19 U	0.16 U [0.15 U]	0.16 U	0.16 U	0.16 U
Methyl tert-butyl ether	mg/kg	5,900	5,900	140	5,900	0.8	88,000,000	5,900	89,000	41,000	30,000	- -	0.27 U	0.31 U	0.26 U [0.25 U]	0.27 U	0.27 U	0.27 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.16 U	0.19 U	0.16 U [0.15 U]	0.16 U	0.16 U	0.16 U
Methylene Chloride	mg/kg	2,300	2,300	30	2,300	0.1	8,300,000	240	4,000	1,700	700	- -	0.033 J	0.036 J	0.034 J [0.042 J]	0.033 J	0.16 U	0.16 U

Table 2B
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-36-02 1 - 3 09/17/01	RFI-36-02 7 - 9 09/17/01	RFI-36-02 9 - 11 09/17/01	RFI-36-02 13 - 15 09/17/01	RFI-38-01 0.5 - 2.5 07/23/01	RFI-38-01 8.5 - 10.5 07/23/01
Naphthalene	mg/kg	- -	2,100	0.73	52,000	100	88,000	470	350	350	350	- -	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	120	- -	8,000	4.6	880,000	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	300	- -	8,000	4.6	590,000	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.037 U	0.044 U	0.037 U [0.036 U]	0.037 U	0.038 U	0.037 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	88	- -	8,000	4.6	180,000	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	270	2.1	520	2.7	6,900,000	520	4,200	3,300	3,300	- -	0.037 U	0.044 U	0.037 U [0.036 U]	0.037 U	0.038 U	0.037 U
tert-Butylbenzene	mg/kg	10,000	180	- -	8,000	4.6	290,000	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	88	1.2	88	0.1	6,800,000	60	3,300	1,400	600	- -	0.037 U	0.044 U	0.037 U [0.036 U]	0.037 U	0.038 U	0.037 U
Tetrahydrofuran	mg/kg	120,000	32,000	220	9,500	5.4	170,000,000	2,400	160,000	67,000	15,000	- -	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	250	5.4	250	16	12,000,000	250	36,000	36,000	3,300	- -	0.037 U	0.044 U	0.037 U [0.036 U]	0.037 U	0.038 U	0.037 U
trans-1,2-Dichloroethene	mg/kg	1,400	1,400	30	1,400	2	2,100,000	43	2,000	840	330	- -	0.037 U	0.044 U	0.037 U [0.036 U]	0.037 U	0.038 U	0.037 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.037 U	0.044 U	0.037 U [0.036 U]	0.037 U	0.038 U	0.037 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	440	4	500	0.1	2,300,000	37	1,100	440	260	- -	0.037 U	0.044 U	0.037 U [0.036 U]	0.037 U	0.038 U	0.037 U
Trichlorofluoromethane	mg/kg	560	560	- -	560	150	1,700,000,000	560	140,000,000	140,000,000	110,000	- -	0.075 U	0.087 U	0.074 U [0.071 U]	0.074 U	0.076 U	0.075 U
Atrazine	mg/kg	- -	110	0.15	330	0.06	- -	- -	- -	- -	- -	- -	0.19 U	0.22 U	0.18 U	0.18 U	0.19 U	0.18 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.19 UJ	0.22 U	0.18 U	0.18 U	0.19 UJ	0.18 UJ
Benzo(a)anthracene	mg/kg	- -	- -	- -	80	- -	- -	- -	- -	- -	- -	- -	0.19 UJ	0.22 UJ	0.18 UJ	0.18 U	0.737	0.0459 J
Benzo(a)pyrene	mg/kg	- -	- -	- -	8	- -	1,900	- -	- -	- -	- -	- -	0.19 UJ	0.22 UJ	0.18 UJ	0.18 U	0.599	0.18 U
Benzo(b)fluoranthene	mg/kg	- -	- -	- -	80	- -	- -	- -	- -	- -	- -	- -	0.19 UJ	0.22 UJ	0.18 UJ	0.18 U	0.591	0.18 U
Benzo(g,h,i)perylene	mg/kg	- -	- -	- -	7,000	- -	350,000	- -	- -	- -	- -	- -	0.19 UJ	0.22 UJ	0.18 UJ	0.18 U	0.362 J	0.18 U
Benzo(k)fluoranthene	mg/kg	- -	- -	- -	800	- -	- -	- -	- -	- -	- -	- -	0.19 UJ	0.22 UJ	0.18 UJ	0.18 U	0.608	0.18 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.22 U	0.18 U	0.18 U	0.19 U	0.18 U
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1	58	0.17	12,000	44	13	13	13	- -	0.036 U	0.042 U	0.035 U	0.035 U	0.036 U	0.035 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	- -	10,000	- -	890,000	- -	- -	- -	- -	- -	0.19 UJ	0.22 UJ	0.18 UJ	0.18 U	0.19 U	0.18 U
Butylbenzylphthalate	mg/kg	310	310	120	310	310	21,000,000	- -	- -	- -	- -	- -	0.0508 J	0.22 UJ	0.18 UJ	0.18 U	0.19 U	0.18 U
Caprolactam	mg/kg	- -	1,000,000	- -	310,000	340	290,000	- -	- -	- -	- -	- -	0.19 U	0.22 U	0.18 U	0.18 U	0.19 U	0.18 UJ
Carbazole	mg/kg	- -	820	1.1	2,400	39	78,000	- -	- -	- -	- -	- -	0.19 U	0.22 U	0.18 U	0.18 U	0.0564 J	0.18 U
Chrysene	mg/kg	- -	- -	- -	8,000	- -	- -	- -	- -	- -	- -	- -	0.19 UJ	0.22 UJ	0.18 UJ	0.18 U	0.81	0.0505 J
Dibenzo(a,h)anthracene	mg/kg	- -	- -	- -	8	- -	- -	- -	- -	- -	- -	- -	0.19 UJ	0.22 UJ	0.18 UJ	0.18 U	0.19 U	0.18 U
Dibenzofuran	mg/kg	- -	- -	1.7	- -	- -	2,900	3,600	160	160	160	- -	0.19 U	0.22 U	0.18 U	0.18 U	0.175 J	0.18 U
Diethylphthalate	mg/kg	740	740	2.2	740	320	1,500,000	- -	- -	- -	- -	- -	0.19 U	0.22 U	0.18 U	0.18 U	0.19 U	0.18 U
Dimethylphthalate	mg/kg	790	790	- -	790	790	1,500,000	- -	- -	- -	- -	- -	0.19 U	0.22 U	0.18 U	0.18 U	0.19 U	0.18 U
Di-n-Butylphthalate	mg/kg	760	760	11	760	760	1,500,000	- -	- -	- -	- -	- -	0.19 U	0.22 U	0.18 U	0.18 U	0.19 U	0.18 U
Di-n-Octylphthalate	mg/kg	140,000	140,000	- -	20,000	140,000	14,000,000	- -	- -	- -	- -	- -	0.19 UJ	0.22 UJ	0.18 UJ	0.18 U	0.19 U	0.18 U
Fluoranthene	mg/kg	- -	730	5.5	130,000	730	4,100,000	1,000,000	880,000	880,000	890,000	- -	0.19 U	0.22 U	0.18 U	0.18 U	1.33	0.0978 J
Fluorene	mg/kg	- -	890	5.3	87,000	890	4,100,000	1,000,000	150,000	150,000	150,000	- -	0.19 U	0.22 U	0.18 U	0.18 U	0.092 J	0.18 U
Hexachlorobenzene	mg/kg	- -	8.2	0.35	37	1.8	8,500	220	56	56	56	- -	0.19 U	0.22 U	0.18 U	0.18 U	0.19 U	0.18 U
Hexachlorobutadiene	mg/kg	350	350	0.091	350	72	180,000	350	460	460	460	- -	0.19 U	0.22 U	0.18 U	0.18 U	0.19 U	0.18 U
Hexachlorocyclopentadiene	mg/kg	720	720	- -	720	320	5,900	56	60	60	60	- -	0.19 U	0.22 U	0.18 U	0.18 U	0.19 U	0.18 U
Hexachloroethane	mg/kg	- -	110	1.8	730	1.2	100,000	79	1,400	1,400	660	- -	0.19 U	0.22 U	0.18 U	0.18 U	0.19 U	0.18 U
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	80	- -	- -	- -	- -	- -	- -	- -	0.19 UJ	0.22 UJ	0.18 UJ	0.18 U	0.343	0.18 U
Isophorone	mg/kg	2,400	2,400	26	2,400	62	8,200,000	- -	- -	- -	- -	- -	0.19 U	0.22 U	0.18 U	0.18 U	0.19 U	0.18 U
Methylphenols, Total	mg/kg	- -	16,000	1	36,000	20	2,900,000	- -	- -	- -	- -	- -	0.19 U	0.22 U	0.18 U	0.18 U	0.19 U	0.18 U
Naphthalene	mg/kg	- -	2,100	0.73	52,000	100	88,000	470	350	350	350	- -	0.19 U	0.22 U	0.18 U	0.18 U	0.201	0.18 U
Nitrobenzene	mg/kg	490	220	3.6	340	0.33	21,000	170	64	64	64	- -	0.073 U	0.085 U	0.07 U	0.072 U	0.074 U	0.071 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	- -	5.4	0.33	2,000	- -	- -	- -	- -	- -	0.19 U	0.22 U	0.18 U	0.18 U	0.19 U	0.18 U
N-Nitrosodiphenylamine	mg/kg	- -	700	- -	7,800	22	2,800,000	- -	- -	- -	- -	- -	0.19 U	0.22 U	0.18 U	0.18 U	0.19 U	0.18 U
Pentachlorophenol	mg/kg	- -	4.3	26.5	320	0.022	130,000	- -	- -	- -	- -	- -	0.73 U	0.85 U	0.7 U	0.72 U	0.74 U	0.71 U
Phenanthrene	mg/kg	- -	1,100	2.1	5,200	160	2,900	5,100	190	190	190	- -	0.19 U	0.22 U	0.18 U	0.18 U	1.13	0.129 J
Phenol	mg/kg	12,000	12,000	9	12,000	260	18,000,000	- -	- -	- -	- -	- -	0.19 U	0.22 U	0.18 U	0.18 U	0.19 U	0.18 U
Pyrene	mg/kg	- -	480	- -	84,000	480	2,900,000	1,000,000	780,000	780,000	780,000	- -	0.19 UJ	0.22 UJ	0.18 UJ	0.18 U	1.15	0.0823 J
PCB																		

Table 2B
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-36-02 1 - 3 09/17/01	RFI-36-02 7 - 9 09/17/01	RFI-36-02 9 - 11 09/17/01	RFI-36-02 13 - 15 09/17/01	RFI-38-01 0.5 - 2.5 07/23/01	RFI-38-01 8.5 - 10.5 07/23/01
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.044 U	0.037 U	0.037 U	0.039 U	0.037 U
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.044 U	0.037 U	0.037 U	0.039 U	0.037 U
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.044 U	0.037 U	0.037 U	0.039 U	0.037 U
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.044 U	0.037 U	0.037 U	0.039 U	0.037 U
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.044 U	0.037 U	0.037 U	0.039 U	0.037 U
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.044 U	0.037 U	0.037 U	0.039 U	0.037 U
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.044 U	0.037 U	0.037 U	0.039 U	0.037 U
Total PCBs	mg/kg	- -	- -	- -	- -	- -	6,500	16,000	28,000	28,000	810	- -	0.038 U	0.044 U	0.037 U	0.037 U	0.039 U	0.037 U
Inorganic																		
Antimony	mg/kg	- -	49,000	94	670	4.3	5,900	- -	- -	- -	- -	- -	0.71 J	0.18 J	0.11 J	0.11 J	0.28 UJ	0.19 UJ
Arsenic	mg/kg	- -	2,000	4.6	37	4.6	910	- -	- -	- -	- -	5.8	3.6 J	4.2 J	3.1 J	4 J	**6.4**	3.3
Barium	mg/kg	- -	1,000,000	858	130,000	1,300	150,000	- -	- -	- -	- -	75	12 J	16 J	8.5 J	7.6 J	38 J	8.6 J
Beryllium	mg/kg	- -	1,000,000	408	1,600	51	590	- -	- -	- -	- -	- -	0.091 J	0.12 J	0.058 J	0.061 J	0.66	0.15
Cadmium	mg/kg	- -	230,000	5.74	2,100	6	2,200	- -	- -	- -	- -	1.2	0.073 J	0.1 J	0.065 J	0.1 J	0.76	0.069
Chromium Total	mg/kg	- -	- -	4,960,000	- -	- -	- -	- -	- -	- -	- -	18	5 J	7.6 J	4.5 J	4.2 J	28 J	5.8 J
Cobalt	mg/kg	- -	48,000	2	9,000	2	5,900	- -	- -	- -	- -	6.8	2.5 J	3.1 J	2.4 J	2.3 J	4.9	2.6
Copper	mg/kg	- -	1,000,000	124	73,000	5,800	59,000	- -	- -	- -	- -	32	6.5 J	7.9 J	5.6 J	5.8 J	19 J	5.6 J
Cyanide (total)	mg/kg	- -	250	0.1	250	4	250	- -	- -	- -	- -	0.39	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	R	R
Lead	mg/kg	- -	- -	5,450	900	700	44,000	- -	- -	- -	- -	21	5 J	6.3 J	4.1 J	5.1 J	20 J	5 J
Manganese	mg/kg	- -	180,000	95.3	90,000	1	1,500	- -	- -	- -	- -	440	120 J	180 J	110 J	120 J	**620 J**	110 J
Mercury	mg/kg	- -	47	0.05	580	1.7	8,800	89	62	62	62	0.13	0.075 U	0.083 U	0.073 U	0.073 U	0.0543 J	0.074 U
Nickel	mg/kg	- -	1,000,000	129	150,000	100	16,000	- -	- -	- -	- -	20	6.8 J	8.4 J	5.8 J	5.6 J	15	5.7
Selenium	mg/kg	- -	78,000	0.4	9,600	4	59,000	- -	- -	- -	- -	0.41	0.15 J	0.15 J	0.064 J	0.061 J	0.54 U	0.076 U
Silver	mg/kg	- -	200,000	0.1	9,000	13	2,900	- -	- -	- -	- -	1	0.11 J	0.14 J	0.051 J	0.048 J	0.086 J	0.025 J
Thallium	mg/kg	- -	15,000	4.2	130	2.3	5,900	- -	- -	- -	- -	- -	0.07 J	0.075 J	0.045 J	0.058 J	0.21 J	0.042 J
Vanadium	mg/kg	- -	1,000,000	190	5,500	990	- -	- -	- -	- -	- -	- -	8.6 J	10 J	7.8 J	7.2 J	23	9.8
Zinc	mg/kg	- -	1,000,000	280	630,000	5,000	- -	- -	- -	- -	- -	47	23 J	28 J	21 J	23 J	55 J	19 J

Table 2B
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-01 18.5 - 20.5 07/23/01	RFI-38-02 1 - 3 07/19/01	RFI-38-02 5 - 7 07/19/01	RFI-38-02 15 - 17 07/19/01	RFI-38-03 1 - 3 07/18/01	RFI-38-03 5 - 7 07/18/01
VOC																		
1,1,1,2-Tetrachloroethane	mg/kg	440	440	- -	440	6.4	530,000	33	330	210	120	- -	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	460	1.8	460	4	29,000,000	460	31,000	15,000	4,500	- -	0.039 U [0.04 U]	0.04 U	0.039 U	0.037 U	0.036 U	0.037 U [0.037 U]
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6	240	0.7	68,000	23	34	34	34	- -	0.079 U [0.079 U]	0.08 U	0.078 U	0.073 U	0.072 U	0.074 U [0.075 U]
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	550	1.7	550	550	2,300,000,000	550	2,100,000	890,000	210,000	- -	0.17 U [0.17 U]	0.17 U	0.17 U	0.16 U	0.16 U	0.16 U [0.16 U]
1,1,2-Trichloroethane	mg/kg	920	420	6.6	840	0.1	250,000	24	120	57	57	- -	0.039 U [0.04 U]	0.04 U	0.039 U	0.037 U	0.036 U	0.037 U [0.037 U]
1,1-Dichloroethane	mg/kg	890	890	15	890	50	15,000,000	430	14,000	6,000	2,500	- -	0.039 U [0.04 U]	0.04 U	0.039 U	0.037 U	0.036 U	0.037 U [0.037 U]
1,1-Dichloroethene	mg/kg	570	220	2.6	570	0.14	78,000	0.33	37	15	3.7	- -	0.039 U [0.04 U]	0.04 U	0.039 U	0.037 U	0.036 U	0.037 U [0.037 U]
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	830	- -	830	2.4	8,800	7.5	12	11	11	- -	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100	5.9	1,100	4.2	11,000,000	1,100	34,000	34,000	34,000	- -	0.17 U [0.17 U]	0.17 U	0.17 U	0.16 U	0.16 U	0.16 U [0.16 U]
1,2,4-Trimethylbenzene	mg/kg	110	110	0.57	110	2.1	36,000,000	110	600,000	600,000	25,000	- -	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.17 U [0.17 U]	0.17 U	0.17 U	0.16 U	0.16 U	0.16 UJ [0.16 U]
1,2-Dibromoethane	mg/kg	890	0.5	0.11	0.43	0.02	18,000	3.6	9.8	5.8	5.8	- -	0.17 U [0.17 U]	0.17 U	0.17 U	0.16 U	0.16 U	0.16 U [0.16 U]
1,2-Dichlorobenzene	mg/kg	210	210	0.28	210	14	44,000,000	210	55,000	46,000	46,000	- -	0.079 U [0.079 U]	0.08 U	0.078 U	0.073 U	0.072 U	0.074 U [0.075 U]
1,2-Dichloroethane	mg/kg	1,200	380	7.2	420	0.1	150,000	11	74	33	21	- -	0.039 U [0.04 U]	0.04 U	0.039 U	0.037 U	0.036 U	0.037 U [0.037 U]
1,2-Dichloropropane	mg/kg	550	320	4.6	550	0.1	120,000	7.4	120	51	30	- -	0.039 U [0.04 U]	0.04 U	0.039 U	0.037 U	0.036 U	0.037 U [0.037 U]
1,3,5-Trimethylbenzene	mg/kg	94	94	1.1	94	1.8	36,000,000	94	460,000	460,000	19,000	- -	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170	0.48	88,000	48	110	94	94	- -	0.079 U [0.079 U]	0.08 U	0.078 U	0.073 U	0.072 U	0.074 U [0.075 U]
1,4-Dichlorobenzene	mg/kg	- -	140	0.36	1,900	1.7	570,000	100	340	260	260	- -	0.079 U [0.079 U]	0.08 U	0.078 U	0.073 U	0.072 U	0.074 U [0.075 U]
2-Butanone	mg/kg	27,000	27,000	44	27,000	760	29,000,000	27,000	36,000	35,000	35,000	- -	0.28 U [0.28 U]	0.28 U	0.28 U	0.26 U	0.26 U	0.26 U [0.27 U]
2-Hexanone	mg/kg	2,500	2,500	- -	2,500	58	1,200,000	1,800	1,500	1,300	1,300	- -	0.28 U [0.28 U]	0.28 U	0.28 U	0.26 U	0.26 U	0.26 U [0.27 U]
2-Methylnaphthalene	mg/kg	- -	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	- -	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	2,700	- -	2,700	100	60,000,000	2,700	70,000	53,000	53,000	- -	0.28 U [0.28 U]	0.28 U	0.28 U	0.26 U	0.26 U	0.26 U [0.27 U]
Acetone	mg/kg	110,000	110,000	34	73,000	42	170,000,000	110,000	200,000	160,000	160,000	- -	0.38 UJ [0.34 UJ]	0.28 U	0.28 U	0.26 U	0.26 U	0.26 U [0.27 U]
Acrylonitrile	mg/kg	8,300	280	0.1	74	0.22	58,000	35	31	17	17	- -	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	220	4	400	0.1	470,000	8.4	230	99	45	- -	0.039 U [0.04 U]	0.04 U	0.039 U	0.037 U	0.036 U	0.037 U [0.037 U]
Bromobenzene	mg/kg	760	360	- -	760	1.5	240,000	580	540	540	540	- -	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	280	- -	490	1.6	110,000	6.4	57	31	31	- -	0.079 U [0.079 U]	0.08 U	0.078 U	0.073 U	0.072 U	0.074 U [0.075 U]
Bromoform	mg/kg	870	870	- -	870	1.6	3,600,000	770	3,100	3,100	3,100	- -	0.079 U [0.079 U]	0.08 U	0.078 U	0.073 U	0.072 U	0.074 U [0.075 U]
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	1.6	140	57	13	- -	0.17 U [0.17 U]	0.17 U	0.17 U	0.16 U	0.16 U	0.16 U [0.16 U]
Carbon Disulfide	mg/kg	280	280	- -	280	46	21,000,000	140	19,000	8,000	1,600	- -	0.17 U [0.17 U]	0.17 U	0.17 U	0.16 U	0.16 U	0.16 U [0.16 U]
Carbon Tetrachloride	mg/kg	390	92	0.9	390	0.1	170,000	0.99	79	34	12	- -	0.039 U [0.04 U]	0.04 U	0.039 U	0.037 U	0.036 U	0.037 U [0.037 U]
Chlorobenzene	mg/kg	260	260	0.5	260	2	2,100,000	220	2,100	1,100	920	- -	0.039 U [0.04 U]	0.04 U	0.039 U	0.037 U	0.036 U	0.037 U [0.037 U]
Chloroethane	mg/kg	950	950	22	950	34	290,000,000	950	280,000	120,000	36,000	- -	0.17 U [0.17 U]	0.17 U	0.17 U	0.16 U	0.16 U	0.16 U [0.16 U]
Chloroform	mg/kg	1,500	1,500	7	1,500	1.6	1,600,000	38	790	340	150	- -	0.039 U [0.04 U]	0.04 U	0.039 U	0.037 U	0.036 U	0.037 U [0.037 U]
Chloromethane	mg/kg	1,100	1,100	- -	1,100	22	2,600,000	10	2,500	1,000	120	- -	0.17 U [0.17 U]	0.17 U	0.17 U	0.16 U	0.16 U	0.16 U [0.16 U]
cis-1,2-Dichloroethene	mg/kg	640	640	12	640	1.4	1,000,000	41	1,000	430	210	- -	0.039 U [0.04 U]	0.04 U	0.039 U	0.037 U	0.036 U	0.037 U [0.037 U]
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.039 U [0.04 U]	0.04 U	0.039 U	0.037 U	0.036 U	0.037 U [0.037 U]
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.17 U [0.17 U]	0.17 U	0.17 U	0.16 U	0.16 U	0.16 U [0.16 U]
Dibromochloromethane	mg/kg	610	360	- -	500	1.6	160,000	21	98	80	80	- -	0.079 U [0.079 U]	0.08 U	0.078 U	0.073 U	0.072 U	0.074 U [0.075 U]
Dibromomethane	mg/kg	2,000	2,000	- -	2,000	4.6	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	1,000	- -	1,000	270	1,500,000,000	1,700	1,400,000	550,000	63,000	- -	0.079 U [0.079 U]	0.08 U	0.078 U	0.073 U	0.072 U	0.074 U [0.075 U]
Diethyl ether	mg/kg	7,400	7,400	- -	7,400	0.2	350,000,000	7,400	350,000	160,000	100,000	- -	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	140	0.36	140	1.5	13,000,000	140	6,500	3,100	2,400	- -	0.039 U [0.04 U]	0.04 U	0.039 U	0.037 U	0.036 U	0.037 U [0.037 U]
Hexachloroethane	mg/kg	- -	110	1.8	730	1.2	100,000	79	1,400	1,400	660	- -	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	390	3.2	390	260	2,600,000	390	3,000	2,000	2,000	- -	0.17 U [0.17 U]	0.17 U	0.17 U	0.16 U	0.16 U	0.16 U [0.16 U]
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.079 U [0.079 U]	0.08 U	0.078 U	0.073 U	0.072 U	0.074 U [0.075 U]
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.17 U [0.17 U]	0.17 U	0.17 U	0.16 U	0.16 U	0.069 J [0.16 U]
Methyl tert-butyl ether	mg/kg	5,900	5,900	140	5,900	0.8	88,000,000	5,900	89,000	41,000	30,000	- -	0.28 U [0.28 U]	0.28 U	0.28 U	0.26 U	0.26 U	0.26 U [0.27 U]
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.17 U [0.17 U]	0.17 U	0.17 U	0.16 U	0.16 U	0.16 U [0.16 U]
Methylene Chloride	mg/kg	2,300	2,300	30	2,300	0.1	8,300,000	240	4,000	1,700	700	- -	0.17 U [0.17 U]	0.17 U	0.17 U	0.16 U	0.16 U	0.16 U [0.16 U]

Table 2B
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-01 18.5 - 20.5 07/23/01	RFI-38-02 1 - 3 07/19/01	RFI-38-02 5 - 7 07/19/01	RFI-38-02 15 - 17 07/19/01	RFI-38-03 1 - 3 07/18/01	RFI-38-03 5 - 7 07/18/01
Naphthalene	mg/kg	- -	2,100	0.73	52,000	100	88,000	470	350	350	350	- -	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	120	- -	8,000	4.6	880,000	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	300	- -	8,000	4.6	590,000	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.039 U [0.04 U]	0.04 U	0.039 U	0.037 U	0.036 U	0.037 U [0.037 U]
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	88	- -	8,000	4.6	180,000	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	270	2.1	520	2.7	6,900,000	520	4,200	3,300	3,300	- -	0.039 U [0.04 U]	0.04 U	0.039 U	0.037 U	0.036 U	0.037 U [0.037 U]
tert-Butylbenzene	mg/kg	10,000	180	- -	8,000	4.6	290,000	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	88	1.2	88	0.1	6,800,000	60	3,300	1,400	600	- -	0.039 U [0.04 U]	0.04 U	0.039 U	0.037 U	0.036 U	0.037 U [0.037 U]
Tetrahydrofuran	mg/kg	120,000	32,000	220	9,500	5.4	170,000,000	2,400	160,000	67,000	15,000	- -	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	250	5.4	250	16	12,000,000	250	36,000	36,000	3,300	- -	0.039 U [0.04 U]	0.04 U	0.039 U	0.037 U	0.036 U	0.037 U [0.037 U]
trans-1,2-Dichloroethene	mg/kg	1,400	1,400	30	1,400	2	2,100,000	43	2,000	840	330	- -	0.039 U [0.04 U]	0.04 U	0.039 U	0.037 U	0.036 U	0.037 U [0.037 U]
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.039 U [0.04 U]	0.04 U	0.039 U	0.037 U	0.036 U	0.037 U [0.037 U]
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	440	4	500	0.1	2,300,000	37	1,100	440	260	- -	0.039 U [0.04 U]	0.04 U	0.039 U	0.037 U	0.036 U	0.037 U [0.037 U]
Trichlorofluoromethane	mg/kg	560	560	- -	560	150	1,700,000,000	560	140,000,000	140,000,000	110,000	- -	0.079 U [0.079 U]	0.08 U	0.078 U	0.073 U	0.072 U	0.074 U [0.075 U]
Atrazine	mg/kg	- -	110	0.15	330	0.06	- -	- -	- -	- -	- -	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U [0.18 U]
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.19 UJ [0.2 UJ]	0.19 UJ	0.19 U	0.18 UJ	0.18 UJ	0.18 UJ [0.18 UJ]
Benzo(a)anthracene	mg/kg	- -	- -	- -	80	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.0759 J [0.18 U]
Benzo(a)pyrene	mg/kg	- -	- -	- -	8	- -	1,900	- -	- -	- -	- -	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.0931 J [0.18 U]
Benzo(b)fluoranthene	mg/kg	- -	- -	- -	80	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.079 J [0.18 U]
Benzo(g,h,i)perylene	mg/kg	- -	- -	- -	7,000	- -	350,000	- -	- -	- -	- -	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.0495 J [0.18 U]
Benzo(k)fluoranthene	mg/kg	- -	- -	- -	800	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.0776 J [0.18 U]
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U [0.18 U]
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1	58	0.17	12,000	44	13	13	13	- -	0.038 U [0.038 U]	0.037 U	0.037 U	0.034 U	0.034 U	0.035 U [0.035 U]
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	- -	10,000	- -	890,000	- -	- -	- -	- -	- -	0.19 U [0.2 U]	0.19 U	0.134 J	0.229 J	0.18 U	0.18 U [0.18 U]
Butylbenzylphthalate	mg/kg	310	310	120	310	310	21,000,000	- -	- -	- -	- -	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U [0.18 U]
Caprolactam	mg/kg	- -	1,000,000	- -	310,000	340	290,000	- -	- -	- -	- -	- -	0.19 UJ [0.2 UJ]	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U [0.18 U]
Carbazole	mg/kg	- -	820	1.1	2,400	39	78,000	- -	- -	- -	- -	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U [0.18 U]
Chrysene	mg/kg	- -	- -	- -	8,000	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.0825 J [0.18 U]
Dibenzo(a,h)anthracene	mg/kg	- -	- -	- -	8	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U [0.18 U]
Dibenzofuran	mg/kg	- -	- -	1.7	- -	- -	2,900	3,600	160	160	160	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U [0.18 U]
Diethylphthalate	mg/kg	740	740	2.2	740	320	1,500,000	- -	- -	- -	- -	- -	0.19 U [0.2 U]	0.19 U	0.0566 J	0.18 U	0.18 U	0.18 U [0.0661 J]
Dimethylphthalate	mg/kg	790	790	- -	790	790	1,500,000	- -	- -	- -	- -	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U [0.18 U]
Di-n-Butylphthalate	mg/kg	760	760	11	760	760	1,500,000	- -	- -	- -	- -	- -	0.19 U [0.2 U]	0.329 J	0.0685 J	0.18 U	0.18 U	0.18 U [0.0486 J]
Di-n-Octylphthalate	mg/kg	140,000	140,000	- -	20,000	140,000	14,000,000	- -	- -	- -	- -	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U [0.18 U]
Fluoranthene	mg/kg	- -	730	5.5	130,000	730	4,100,000	1,000,000	880,000	880,000	890,000	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.0984 J [0.18 U]
Fluorene	mg/kg	- -	890	5.3	87,000	890	4,100,000	1,000,000	150,000	150,000	150,000	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U [0.18 U]
Hexachlorobenzene	mg/kg	- -	8.2	0.35	37	1.8	8,500	220	56	56	56	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U [0.18 U]
Hexachlorobutadiene	mg/kg	350	350	0.091	350	72	180,000	350	460	460	460	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U [0.18 U]
Hexachlorocyclopentadiene	mg/kg	720	720	- -	720	320	5,900	56	60	60	60	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U [0.18 U]
Hexachloroethane	mg/kg	- -	110	1.8	730	1.2	100,000	79	1,400	1,400	660	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U [0.18 U]
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	80	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.0492 J [0.18 U]
Isophorone	mg/kg	2,400	2,400	26	2,400	62	8,200,000	- -	- -	- -	- -	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U [0.18 U]
Methylphenols, Total	mg/kg	- -	16,000	1	36,000	20	2,900,000	- -	- -	- -	- -	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U [0.18 U]
Naphthalene	mg/kg	- -	2,100	0.73	52,000	100	88,000	470	350	350	350	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U [0.18 U]
Nitrobenzene	mg/kg	490	220	3.6	340	0.33	21,000	170	64	64	64	- -	0.076 U [0.077 U]	0.076 U	0.075 U	0.069 U	0.07 U	0.071 U [0.07 U]
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	- -	5.4	0.33	2,000	- -	- -	- -	- -	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U [0.18 U]
N-Nitrosodiphenylamine	mg/kg	- -	700	- -	7,800	22	2,800,000	- -	- -	- -	- -	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U [0.18 U]
Pentachlorophenol	mg/kg	- -	4.3	26.5	320	0.022	130,000	- -	- -	- -	- -	- -	0.76 U [0.77 U]	0.76 U	0.75 U	0.69 U	0.7 U	0.71 U [0.7 U]
Phenanthrene	mg/kg	- -	1,100	2.1	5,200	160	2,900	5,100	190	190	190	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U [0.18 U]
Phenol	mg/kg	12,000	12,000	9	12,000	260	18,000,000	- -	- -	- -	- -	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U [0.18 U]
Pyrene	mg/kg	- -	480	- -	84,000	480	2,900,000	1,000,000	780,000	780,000	780,000	- -	0.19 U [0.2 U]	0.19 U	0.19 U	0.18 U	0.18 U	0.124 J [0.18 U]
PCB																		

Table 2B
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-01 18.5 - 20.5 07/23/01	RFI-38-02 1 - 3 07/19/01	RFI-38-02 5 - 7 07/19/01	RFI-38-02 15 - 17 07/19/01	RFI-38-03 1 - 3 07/18/01	RFI-38-03 5 - 7 07/18/01
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.04 U [0.04 U]	0.04 U	0.039 U	0.036 U	0.036 U	0.037 U [0.037 U]
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.04 U [0.04 U]	0.04 U	0.039 U	0.036 U	0.036 U	0.037 U [0.037 U]
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.04 U [0.04 U]	0.04 U	0.039 U	0.036 U	0.036 U	0.037 U [0.037 U]
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.04 U [0.04 U]	0.04 U	0.039 U	0.036 U	0.036 U	0.037 U [0.037 U]
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.04 U [0.04 U]	0.04 U	0.039 U	0.036 U	0.036 U	0.037 U [0.037 U]
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.04 U [0.04 U]	0.04 U	0.039 U	0.036 U	0.036 U	0.037 U [0.037 U]
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.04 U [0.04 U]	0.04 U	0.039 U	0.036 U	0.036 U	0.037 U [0.037 U]
Total PCBs	mg/kg	- -	- -	- -	- -	- -	6,500	16,000	28,000	28,000	810	- -	0.04 U [0.04 U]	0.04 U	0.039 U	0.036 U	0.036 U	0.037 U [0.037 U]
Inorganic																		
Antimony	mg/kg	- -	49,000	94	670	4.3	5,900	- -	- -	- -	- -	- -	0.22 UJ [0.2 UJ]	R	R	0.37 J	R	R [R]
Arsenic	mg/kg	- -	2,000	4.6	37	4.6	910	- -	- -	- -	- -	5.8	1.9 [2.1]	3.7	3.9	2.4	3.6	4.1 [3.6]
Barium	mg/kg	- -	1,000,000	858	130,000	1,300	150,000	- -	- -	- -	- -	75	4.4 J [4.7 J]	20	52	5.9	15	16 [17]
Beryllium	mg/kg	- -	1,000,000	408	1,600	51	590	- -	- -	- -	- -	- -	0.062 J [0.082]	0.15	0.33	0.078	0.13	0.15 [0.14]
Cadmium	mg/kg	- -	230,000	5.74	2,100	6	2,200	- -	- -	- -	- -	1.2	0.093 [0.085]	0.14	0.16	0.054	0.096	0.12 [0.097]
Chromium Total	mg/kg	- -	- -	4,960,000	- -	- -	- -	- -	- -	- -	- -	18	3.3 J [3 J]	7	10	3.6	5.3	6.2 [5.8]
Cobalt	mg/kg	- -	48,000	2	9,000	2	5,900	- -	- -	- -	- -	6.8	1.6 [1.7]	3	5.4	1.7	2.5	2.6 [2.5]
Copper	mg/kg	- -	1,000,000	124	73,000	5,800	59,000	- -	- -	- -	- -	32	3 J [3.3 J]	6.1	7.7	3.1	5.8	7.3 [6.8]
Cyanide (total)	mg/kg	- -	250	0.1	250	4	250	- -	- -	- -	- -	0.39	R [R]	0.2 U	0.059 J	0.2 U	0.2 U	0.026 J [0.01 J]
Lead	mg/kg	- -	- -	5,450	900	700	44,000	- -	- -	- -	- -	21	3.1 J [3.1 J]	4.9	10	3	4.4	6.7 [6.3]
Manganese	mg/kg	- -	180,000	95.3	90,000	1	1,500	- -	- -	- -	- -	440	99 J [100 J]	120 J	390 J	72 J	120 J	170 J [120 J]
Mercury	mg/kg	- -	47	0.05	580	1.7	8,800	89	62	62	62	0.13	0.08 U [0.079 U]	0.0228 J	0.0443 J	0.072 U	0.0233 J	0.0267 J [0.0274 J]
Nickel	mg/kg	- -	1,000,000	129	150,000	100	16,000	- -	- -	- -	- -	20	5 [5.1]	7.3	9.9	4.6	6.1	6.9 [6.2]
Selenium	mg/kg	- -	78,000	0.4	9,600	4	59,000	- -	- -	- -	- -	0.41	0.15 U [0.08 U]	0.27	0.42	0.27 J	0.33 J	0.34 [0.21]
Silver	mg/kg	- -	200,000	0.1	9,000	13	2,900	- -	- -	- -	- -	1	0.024 J [0.051 J]	0.2	0.032 J	0.024 J	0.062 J	0.028 J [0.036 J]
Thallium	mg/kg	- -	15,000	4.2	130	2.3	5,900	- -	- -	- -	- -	- -	0.063 J [0.054 J]	0.051 J	0.12 J	0.034 J	0.055 J	0.066 J [0.052 J]
Vanadium	mg/kg	- -	1,000,000	190	5,500	990	- -	- -	- -	- -	- -	- -	5.2 [5.2]	12	25	6.5	11	11 [9.3]
Zinc	mg/kg	- -	1,000,000	280	630,000	5,000	- -	- -	- -	- -	- -	47	16 J [16 J]	45	36	17	23	27 [25]

Table 2B
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-03 9 - 11 07/18/01	RFI-38-03 17 - 19 07/18/01	RFI-38-04 0.2 - 2.2 08/21/01	RFI-38-04 8.2 - 10.2 08/21/01	RFI-38-04 16.2 - 18.2 08/21/01	RFI-38-05 0.6 - 2.6 08/24/01	RFI-38-05 8.6 - 10.6 08/24/01
VOC																			
1,1,1,2-Tetrachloroethane	mg/kg	440	440	- -	440	6.4	530,000	33	330	210	120	- -	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	460	1.8	460	4	29,000,000	460	31,000	15,000	4,500	- -	0.037 U	0.039 U	0.038 U	0.038 U	0.037 U	0.038 U	0.04 U [0.04 U]
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6	240	0.7	68,000	23	34	34	34	- -	0.074 U	0.077 U	0.077 U	0.076 U	0.074 U	0.076 U	0.079 U [0.08 U]
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	550	1.7	550	550	2,300,000,000	550	2,100,000	890,000	210,000	- -	0.16 U	0.17 U	0.16 U	0.16 U	0.16 U	0.16 U	0.17 U [0.17 U]
1,1,2-Trichloroethane	mg/kg	920	420	6.6	840	0.1	250,000	24	120	57	57	- -	0.037 U	0.039 U	0.038 U	0.038 U	0.037 U	0.038 U	0.04 U [0.04 U]
1,1-Dichloroethane	mg/kg	890	890	15	890	50	15,000,000	430	14,000	6,000	2,500	- -	0.037 U	0.039 U	0.038 U	0.038 U	0.037 U	0.038 U	0.04 U [0.04 U]
1,1-Dichloroethene	mg/kg	570	220	2.6	570	0.14	78,000	0.33	37	15	3.7	- -	0.037 U	0.039 U	0.038 U	0.038 U	0.037 U	0.038 U	0.04 U [0.04 U]
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	830	- -	830	2.4	8,800	7.5	12	11	11	- -	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100	5.9	1,100	4.2	11,000,000	1,100	34,000	34,000	34,000	- -	0.16 U	0.17 U	0.16 U	0.16 U	0.031 J	0.16 U	0.17 U [0.17 U]
1,2,4-Trimethylbenzene	mg/kg	110	110	0.57	110	2.1	36,000,000	110	600,000	600,000	25,000	- -	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.16 U	0.17 U	0.16 U	0.16 U	0.16 U	0.16 U	0.17 U [0.17 U]
1,2-Dibromoethane	mg/kg	890	0.5	0.11	0.43	0.02	18,000	3.6	9.8	5.8	5.8	- -	0.16 U	0.17 U	0.16 U	0.16 U	0.16 U	0.16 U	0.17 U [0.17 U]
1,2-Dichlorobenzene	mg/kg	210	210	0.28	210	14	44,000,000	210	55,000	46,000	46,000	- -	0.074 U	0.077 U	0.077 U	0.076 U	0.074 U	0.076 U	0.079 U [0.08 U]
1,2-Dichloroethane	mg/kg	1,200	380	7.2	420	0.1	150,000	11	74	33	21	- -	0.037 U	0.039 U	0.038 U	0.038 U	0.037 U	0.038 U	0.04 U [0.04 U]
1,2-Dichloropropane	mg/kg	550	320	4.6	550	0.1	120,000	7.4	120	51	30	- -	0.037 U	0.039 U	0.038 U	0.038 U	0.037 U	0.038 U	0.04 U [0.04 U]
1,3,5-Trimethylbenzene	mg/kg	94	94	1.1	94	1.8	36,000,000	94	460,000	460,000	19,000	- -	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170	0.48	88,000	48	110	94	94	- -	0.074 U	0.077 U	0.077 U	0.076 U	0.074 U	0.076 U	0.079 U [0.08 U]
1,4-Dichlorobenzene	mg/kg	- -	140	0.36	1,900	1.7	570,000	100	340	260	260	- -	0.074 U	0.077 U	0.077 U	0.076 U	0.074 U	0.076 U	0.079 U [0.08 U]
2-Butanone	mg/kg	27,000	27,000	44	27,000	760	29,000,000	27,000	36,000	35,000	35,000	- -	0.26 U	0.28 U	0.27 UJ	0.27 UJ	0.26 UJ	0.27 U	0.28 U [0.28 U]
2-Hexanone	mg/kg	2,500	2,500	- -	2,500	58	1,200,000	1,800	1,500	1,300	1,300	- -	0.26 U	0.28 U	0.27 U	0.27 U	0.26 U	0.27 U	0.28 U [0.28 U]
2-Methylnaphthalene	mg/kg	- -	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	- -	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	2,700	- -	2,700	100	60,000,000	2,700	70,000	53,000	53,000	- -	0.26 U	0.28 U	0.27 U	0.27 U	0.26 U	0.27 U	0.28 U [0.28 U]
Acetone	mg/kg	110,000	110,000	34	73,000	42	170,000,000	110,000	200,000	160,000	160,000	- -	0.26 U	0.28 U	0.27 UJ	0.27 UJ	0.26 UJ	0.27 UJ	0.28 UJ [0.28 UJ]
Acrylonitrile	mg/kg	8,300	280	0.1	74	0.22	58,000	35	31	17	17	- -	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	220	4	400	0.1	470,000	8.4	230	99	45	- -	0.037 U	0.039 U	0.038 U	0.038 U	0.037 U	0.038 U	0.04 U [0.04 U]
Bromobenzene	mg/kg	760	360	- -	760	1.5	240,000	580	540	540	540	- -	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	280	- -	490	1.6	110,000	6.4	57	31	31	- -	0.074 U	0.077 U	0.077 U	0.076 U	0.074 U	0.076 U	0.079 U [0.08 U]
Bromoform	mg/kg	870	870	- -	870	1.6	3,600,000	770	3,100	3,100	3,100	- -	0.074 U	0.077 U	0.077 U	0.076 U	0.074 U	0.076 U	0.079 U [0.08 U]
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	1.6	140	57	13	- -	0.16 U	0.17 U	0.16 UJ	0.16 UJ	0.16 UJ	0.16 U	0.17 U [0.17 U]
Carbon Disulfide	mg/kg	280	280	- -	280	46	21,000,000	140	19,000	8,000	1,600	- -	0.16 U	0.17 U	0.16 U	0.16 U	0.16 U	0.16 U	0.17 U [0.17 U]
Carbon Tetrachloride	mg/kg	390	92	0.9	390	0.1	170,000	0.99	79	34	12	- -	0.037 U	0.039 U	0.038 U	0.038 U	0.037 U	0.038 U	0.04 U [0.04 U]
Chlorobenzene	mg/kg	260	260	0.5	260	2	2,100,000	220	2,100	1,100	920	- -	0.037 U	0.039 U	0.038 U	0.038 U	0.037 U	0.038 U	0.04 U [0.04 U]
Chloroethane	mg/kg	950	950	22	950	34	290,000,000	950	280,000	120,000	36,000	- -	0.16 U	0.17 U	0.16 U	0.16 U	0.16 U	0.16 U	0.17 U [0.17 UJ]
Chloroform	mg/kg	1,500	1,500	7	1,500	1.6	1,600,000	38	790	340	150	- -	0.037 U	0.039 U	0.038 U	0.038 U	0.037 U	0.038 U	0.04 U [0.04 U]
Chloromethane	mg/kg	1,100	1,100	- -	1,100	22	2,600,000	10	2,500	1,000	120	- -	0.16 U	0.17 U	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ	0.17 UJ [0.17 U]
cis-1,2-Dichloroethene	mg/kg	640	640	12	640	1.4	1,000,000	41	1,000	430	210	- -	0.037 U	0.039 U	0.038 U	0.038 U	0.037 U	0.038 U	0.04 U [0.04 U]
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.037 U	0.039 U	0.038 U	0.038 U	0.037 U	0.038 U	0.04 U [0.04 U]
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.16 U	0.17 U	0.16 U	0.16 U	0.16 U	0.16 U	0.17 U [0.17 UJ]
Dibromochloromethane	mg/kg	610	360	- -	500	1.6	160,000	21	98	80	80	- -	0.074 U	0.077 U	0.077 U	0.076 U	0.074 U	0.076 U	0.079 U [0.08 U]
Dibromomethane	mg/kg	2,000	2,000	- -	2,000	4.6	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	1,000	- -	1,000	270	1,500,000,000	1,700	1,400,000	550,000	63,000	- -	0.074 U	0.077 U	0.077 U	0.076 U	0.074 U	0.076 U	0.079 U [0.08 U]
Diethyl ether	mg/kg	7,400	7,400	- -	7,400	0.2	350,000,000	7,400	350,000	160,000	100,000	- -	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	140	0.36	140	1.5	13,000,000	140	6,500	3,100	2,400	- -	0.037 U	0.039 U	0.038 U	0.038 U	0.037 U	0.18	0.04 U [0.04 U]
Hexachloroethane	mg/kg	- -	110	1.8	730	1.2	100,000	79	1,400	1,400	660	- -	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	390	3.2	390	260	2,600,000	390	3,000	2,000	2,000	- -	0.16 U	0.17 U	0.16 U	0.16 U	0.16 U	0.035 J	0.17 U [0.17 U]
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.074 U	0.077 U	0.077 U	0.076 U	0.074 U	0.12	0.079 U [0.08 U]
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.16 U	0.17 U	0.16 U	0.16 U	0.16 U	0.16 U	0.17 U [0.17 U]
Methyl tert-butyl ether	mg/kg	5,900	5,900	140	5,900	0.8	88,000,000	5,900	89,000	41,000	30,000	- -	0.26 U	0.28 U	0.27 U	0.27 U	0.26 U	0.27 U	0.28 U [0.28 U]
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.16 U	0.17 U	0.029 J	0.16 U	0.16 U	0.16 U	0.17 U [0.17 U]
Methylene Chloride	mg/kg	2,300	2,300	30	2,300	0.1	8,300,000	240	4,000	1,700	700	- -	0.094 J	0.05 J	0.16 U	0.16 U	0.16 U	0.16 U	0.17 U [0.17 U]

Table 2B
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-03 9 - 11 07/18/01	RFI-38-03 17 - 19 07/18/01	RFI-38-04 0.2 - 2.2 08/21/01	RFI-38-04 8.2 - 10.2 08/21/01	RFI-38-04 16.2 - 18.2 08/21/01	RFI-38-05 0.6 - 2.6 08/24/01	RFI-38-05 8.6 - 10.6 08/24/01
Naphthalene	mg/kg	- -	2,100	0.73	52,000	100	88,000	470	350	350	350	- -	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	120	- -	8,000	4.6	880,000	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	300	- -	8,000	4.6	590,000	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.037 U	0.039 U	0.038 U	0.038 U	0.037 U	0.038 U	0.04 U [0.04 U]
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	88	- -	8,000	4.6	180,000	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	270	2.1	520	2.7	6,900,000	520	4,200	3,300	3,300	- -	0.037 U	0.039 U	0.038 U	0.038 U	0.037 U	0.038 U	0.04 U [0.04 U]
tert-Butylbenzene	mg/kg	10,000	180	- -	8,000	4.6	290,000	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	88	1.2	88	0.1	6,800,000	60	3,300	1,400	600	- -	0.037 U	0.039 U	0.038 U	0.038 U	0.037 U	0.038 U	0.04 U [0.04 U]
Tetrahydrofuran	mg/kg	120,000	32,000	220	9,500	5.4	170,000,000	2,400	160,000	67,000	15,000	- -	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	250	5.4	250	16	12,000,000	250	36,000	36,000	3,300	- -	0.037 U	0.039 U	0.038 U	0.038 U	0.037 U	0.031 J	0.04 U [0.04 U]
trans-1,2-Dichloroethene	mg/kg	1,400	1,400	30	1,400	2	2,100,000	43	2,000	840	330	- -	0.037 U	0.039 U	0.038 U	0.038 U	0.037 U	0.038 U	0.04 U [0.04 U]
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.037 U	0.039 U	0.038 U	0.038 U	0.037 U	0.038 U	0.04 U [0.04 U]
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	440	4	500	0.1	2,300,000	37	1,100	440	260	- -	0.037 U	0.039 U	0.038 U	0.038 U	0.037 U	0.038 U	0.04 U [0.04 U]
Trichlorofluoromethane	mg/kg	560	560	- -	560	150	1,700,000,000	560	140,000,000	140,000,000	110,000	- -	0.074 U	0.077 U	0.077 U	0.076 U	0.074 U	0.076 U	0.079 U [0.08 U]
Atrazine	mg/kg	- -	110	0.15	330	0.06	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.19 U	0.18 UJ	0.18 UJ	0.18 U	0.19 U [0.19 U]
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.18 UJ	0.19 UJ	0.19 U	0.18 UJ	0.18 UJ	0.18 U	0.19 U [0.19 U]
Benzo(a)anthracene	mg/kg	- -	- -	- -	80	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.598	0.18 U	0.18 U	0.439	0.0538 J [0.19 U]
Benzo(a)pyrene	mg/kg	- -	- -	- -	8	- -	1,900	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.745 J	0.18 U	0.18 U	0.305	0.0505 J [0.19 U]
Benzo(b)fluoranthene	mg/kg	- -	- -	- -	80	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.869 J	0.18 U	0.18 U	0.585	0.0449 J [0.19 UJ]
Benzo(g,h,i)perylene	mg/kg	- -	- -	- -	7,000	- -	350,000	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.513 J	0.18 U	0.18 U	0.18 U	0.19 UJ [0.19 UJ]
Benzo(k)fluoranthene	mg/kg	- -	- -	- -	800	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.843 J	0.18 U	0.18 U	0.331	0.0557 J [0.19 UJ]
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U [0.19 U]
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1	58	0.17	12,000	44	13	13	13	- -	0.035 U	0.036 U	0.037 U	0.035 U	0.034 U	0.035 U	0.037 U [0.037 U]
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	- -	10,000	- -	890,000	- -	- -	- -	- -	- -	0.18 U	0.0959 J	0.19 U	0.18 U	0.18 U	0.18 U	0.0672 J [0.508 J]
Butylbenzylphthalate	mg/kg	310	310	120	310	310	21,000,000	- -	- -	- -	- -	- -	0.119 J	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U [0.19 U]
Caprolactam	mg/kg	- -	1,000,000	- -	310,000	340	290,000	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.19 U	0.18 UJ	0.18 UJ	0.18 U	0.19 U [0.19 U]
Carbazole	mg/kg	- -	820	1.1	2,400	39	78,000	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.107 J	0.18 U	0.18 U	0.18 U	0.19 U [0.19 U]
Chrysene	mg/kg	- -	- -	- -	8,000	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.838	0.18 U	0.18 U	0.489	0.0583 J [0.19 U]
Dibenzo(a,h)anthracene	mg/kg	- -	- -	- -	8	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.19 UJ	0.18 U	0.18 U	0.18 U	0.19 UJ [0.19 UJ]
Dibenzofuran	mg/kg	- -	- -	1.7	- -	- -	2,900	3,600	160	160	160	- -	0.18 U	0.19 U	0.19 U	0.18 U	0.18 U	0.0522 J	0.19 U [0.19 U]
Diethylphthalate	mg/kg	740	740	2.2	740	320	1,500,000	- -	- -	- -	- -	- -	0.126 J	0.15 J	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U [0.19 U]
Dimethylphthalate	mg/kg	790	790	- -	790	790	1,500,000	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U [0.19 U]
Di-n-Butylphthalate	mg/kg	760	760	11	760	760	1,500,000	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U [0.19 U]
Di-n-Octylphthalate	mg/kg	140,000	140,000	- -	20,000	140,000	14,000,000	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.19 UJ	0.18 U	0.18 U	0.18 U	0.19 UJ [0.19 UJ]
Fluoranthene	mg/kg	- -	730	5.5	130,000	730	4,100,000	1,000,000	880,000	880,000	890,000	- -	0.0444 J	0.19 U	1.33	0.18 U	0.18 U	0.895	0.143 J [0.0475 J]
Fluorene	mg/kg	- -	890	5.3	87,000	890	4,100,000	1,000,000	150,000	150,000	150,000	- -	0.18 U	0.19 U	0.19 U	0.18 U	0.18 U	0.0682 J	0.19 U [0.19 U]
Hexachlorobenzene	mg/kg	- -	8.2	0.35	37	1.8	8,500	220	56	56	56	- -	0.18 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U [0.19 U]
Hexachlorobutadiene	mg/kg	350	350	0.091	350	72	180,000	350	460	460	460	- -	0.18 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U [0.19 U]
Hexachlorocyclopentadiene	mg/kg	720	720	- -	720	320	5,900	56	60	60	60	- -	0.18 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U [0.19 U]
Hexachloroethane	mg/kg	- -	110	1.8	730	1.2	100,000	79	1,400	1,400	660	- -	0.18 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U [0.19 U]
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	80	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.489 J	0.18 U	0.18 U	0.12 J	0.19 UJ [0.19 UJ]
Isophorone	mg/kg	2,400	2,400	26	2,400	62	8,200,000	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U [0.19 U]
Methylphenols, Total	mg/kg	- -	16,000	1	36,000	20	2,900,000	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U [0.19 U]
Naphthalene	mg/kg	- -	2,100	0.73	52,000	100	88,000	470	350	350	350	- -	0.18 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U [0.19 U]
Nitrobenzene	mg/kg	490	220	3.6	340	0.33	21,000	170	64	64	64	- -	0.071 U	0.074 U	0.074 U	0.071 U	0.07 U	0.072 U	0.075 U [0.075 U]
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	- -	5.4	0.33	2,000	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U [0.19 U]
N-Nitrosodiphenylamine	mg/kg	- -	700	- -	7,800	22	2,800,000	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U [0.19 U]
Pentachlorophenol	mg/kg	- -	4.3	26.5	320	0.022	130,000	- -	- -	- -	- -	- -	0.71 U	0.74 U	0.74 U	0.71 U	0.7 U	0.72 U	0.75 U [0.75 U]
Phenanthrene	mg/kg	- -	1,100	2.1	5,200	160	2,900	5,100	190	190	190	- -	0.0373 J	0.19 U	0.755	0.18 U	0.18 U	0.521	0.136 J [0.0624 J]
Phenol	mg/kg	12,000	12,000	9	12,000	260	18,000,000	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U [0.19 U]
Pyrene	mg/kg	- -	480	- -	84,000	480	2,900,000	1,000,000	780,000	780,000	780,000	- -	0.18 U	0.19 U	1.91	0.18 U	0.18 U	1.33	0.16 J [0.0523 J]
PCB																			

Table 2B
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-03 9 - 11 07/18/01	RFI-38-03 17 - 19 07/18/01	RFI-38-04 0.2 - 2.2 08/21/01	RFI-38-04 8.2 - 10.2 08/21/01	RFI-38-04 16.2 - 18.2 08/21/01	RFI-38-05 0.6 - 2.6 08/24/01	RFI-38-05 8.6 - 10.6 08/24/01
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.037 U	0.039 U	0.039 U	0.037 U	0.036 U	0.038 U	0.039 U [0.039 U]
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.037 U	0.039 U	0.039 U	0.037 U	0.036 U	0.038 U	0.039 U [0.039 U]
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.037 U	0.039 U	0.039 U	0.037 U	0.036 U	0.038 U	0.039 U [0.039 U]
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.037 U	0.039 U	0.039 U	0.037 U	0.036 U	0.038 U	0.039 U [0.039 U]
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.037 U	0.039 U	0.039 U	0.037 U	0.036 U	0.038 U	0.039 U [0.079]
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.037 U	0.039 U	0.039 U	0.037 U	0.036 U	0.038 U	0.039 U [0.039 U]
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.037 U	0.039 U	0.019 J	0.037 U	0.036 U	0.038 U	0.039 U [0.039 U]
Total PCBs	mg/kg	- -	- -	- -	- -	- -	6,500	16,000	28,000	28,000	810	- -	0.037 U	0.039 U	0.019 J	0.037 U	0.036 U	0.038 U	0.039 U [0.079]
Inorganic																			
Antimony	mg/kg	- -	49,000	94	670	4.3	5,900	- -	- -	- -	- -	- -	R	R	0.24 UJ	0.27 UJ	0.22 UJ	0.25 U	0.25 U [0.24 U]
Arsenic	mg/kg	- -	2,000	4.6	37	4.6	910	- -	- -	- -	- -	5.8	4.7	2.4	4.5	3.7	2.7	4.8	3.9 [3.5 U]
Barium	mg/kg	- -	1,000,000	858	130,000	1,300	150,000	- -	- -	- -	- -	75	27	8.3	16	5.6	7.6	62	12 [11]
Beryllium	mg/kg	- -	1,000,000	408	1,600	51	590	- -	- -	- -	- -	- -	0.26	0.12	0.17	0.078 J	0.067 J	0.6	0.15 [0.15]
Cadmium	mg/kg	- -	230,000	5.74	2,100	6	2,200	- -	- -	- -	- -	1.2	0.11	0.12	0.29	0.078	0.064	0.29	0.09 [0.081]
Chromium Total	mg/kg	- -	- -	4,960,000	- -	- -	- -	- -	- -	- -	- -	18	12	4.7	8.6	3.9	4.9	27	5.7 [5]
Cobalt	mg/kg	- -	48,000	2	9,000	2	5,900	- -	- -	- -	- -	6.8	3.6	1.4	3.2	2.1	2	6	3 [2.5]
Copper	mg/kg	- -	1,000,000	124	73,000	5,800	59,000	- -	- -	- -	- -	32	11	5	9.2	5 U	5.3 U	24	5.8 [4.5]
Cyanide (total)	mg/kg	- -	250	0.1	250	4	250	- -	- -	- -	- -	0.39	0.041 J	0.033 J	0.12 J	0.2 U	0.2 U	0.2 U	0.2 U [0.2 U]
Lead	mg/kg	- -	- -	5,450	900	700	44,000	- -	- -	- -	- -	21	9.8	3.8	13 J	3.9 J	4 J	24	5.5 [4.9]
Manganese	mg/kg	- -	180,000	95.3	90,000	1	1,500	- -	- -	- -	- -	440	200 J	65 J	280	120 J	100 J	**620**	100 [100]
Mercury	mg/kg	- -	47	0.05	580	1.7	8,800	89	62	62	62	0.13	0.0287 J	0.077 U	0.078 U	0.073 U	0.072 U	0.0266 J	0.078 U [0.079 U]
Nickel	mg/kg	- -	1,000,000	129	150,000	100	16,000	- -	- -	- -	- -	20	10	5.1	16	5.4	5.6	18	6.9 [6.1]
Selenium	mg/kg	- -	78,000	0.4	9,600	4	59,000	- -	- -	- -	- -	0.41	0.39 J	0.38	0.21	0.21 J	0.27 J	0.12	0.06 J [0.095 U]
Silver	mg/kg	- -	200,000	0.1	9,000	13	2,900	- -	- -	- -	- -	1	0.046 J	0.02 J	0.14 J	0.34	0.074 J	0.25	0.13 J [0.091 J]
Thallium	mg/kg	- -	15,000	4.2	130	2.3	5,900	- -	- -	- -	- -	- -	0.1 J	0.044 J	0.073 J	0.04 J	0.034 J	0.16 J	0.066 J [0.062 J]
Vanadium	mg/kg	- -	1,000,000	190	5,500	990	- -	- -	- -	- -	- -	- -	14	9	12	7.2	8.2	20	11 [9.4]
Zinc	mg/kg	- -	1,000,000	280	630,000	5,000	- -	- -	- -	- -	- -	47	31	22	33	21	18	63	27 [21]

Table 2B
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-05 14.6 - 16.6 08/24/01	RFI-38-06 0.5 - 2.5 08/24/01	RFI-38-06 8.5 - 10.5 08/24/01	RFI-38-06 12.5 - 14.5 08/24/01	RFI-38-07 0.8 - 2 10/11/12	RFI-38-07 5 - 7 10/11/12
VOC																		
1,1,1,2-Tetrachloroethane	mg/kg	440	440	- -	440	6.4	530,000	33	330	210	120	- -	NA	NA	NA	NA	0.1 U	0.1 U
1,1,1-Trichloroethane	mg/kg	460	460	1.8	460	4	29,000,000	460	31,000	15,000	4,500	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.06 U	0.06 U
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6	240	0.7	68,000	23	34	34	34	- -	0.079 U	0.075 U	0.074 U	0.075 U	0.06 U	0.06 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	550	1.7	550	550	2,300,000,000	550	2,100,000	890,000	210,000	- -	0.17 U	0.16 U	0.16 U	0.16 U	NA	NA
1,1,2-Trichloroethane	mg/kg	920	420	6.6	840	0.1	250,000	24	120	57	57	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.06 U	0.06 U
1,1-Dichloroethane	mg/kg	890	890	15	890	50	15,000,000	430	14,000	6,000	2,500	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.06 U	0.06 U
1,1-Dichloroethene	mg/kg	570	220	2.6	570	0.14	78,000	0.33	37	15	3.7	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.06 U	0.06 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.42 U	0.4 U
1,2,3-Trichloropropane	mg/kg	830	830	- -	830	2.4	8,800	7.5	12	11	11	- -	NA	NA	NA	NA	0.1 U	0.1 U
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.1 U	0.1 U
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100	5.9	1,100	4.2	11,000,000	1,100	34,000	34,000	34,000	- -	0.17 U	0.16 U	0.16 U	0.16 U	0.42 U	0.4 U
1,2,4-Trimethylbenzene	mg/kg	110	110	0.57	110	2.1	36,000,000	110	600,000	600,000	25,000	- -	NA	NA	NA	NA	0.1 U	0.1 U
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.16 U	0.16 U	0.16 U	0.3 U	0.3 U
1,2-Dibromoethane	mg/kg	890	0.5	0.11	0.43	0.02	18,000	3.6	9.8	5.8	5.8	- -	0.17 U	0.16 U	0.16 U	0.16 U	0.03 UM	0.02 UM
1,2-Dichlorobenzene	mg/kg	210	210	0.28	210	14	44,000,000	210	55,000	46,000	46,000	- -	0.079 U	0.075 U	0.074 U	0.075 U	0.1 U	0.1 U
1,2-Dichloroethane	mg/kg	1,200	380	7.2	420	0.1	150,000	11	74	33	21	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.06 U	0.06 U
1,2-Dichloropropane	mg/kg	550	320	4.6	550	0.1	120,000	7.4	120	51	30	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.06 U	0.06 U
1,3,5-Trimethylbenzene	mg/kg	94	94	1.1	94	1.8	36,000,000	94	460,000	460,000	19,000	- -	NA	NA	NA	NA	0.1 U	0.1 U
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170	0.48	88,000	48	110	94	94	- -	0.079 U	0.075 U	0.074 U	0.075 U	0.1 U	0.1 U
1,4-Dichlorobenzene	mg/kg	- -	140	0.36	1,900	1.7	570,000	100	340	260	260	- -	0.079 U	0.075 U	0.074 U	0.075 U	0.1 U	0.1 U
2-Butanone	mg/kg	27,000	27,000	44	27,000	760	29,000,000	27,000	36,000	35,000	35,000	- -	0.28 U	0.27 U	0.26 U	0.27 U	0.95 U	0.9 U
2-Hexanone	mg/kg	2,500	2,500	- -	2,500	58	1,200,000	1,800	1,500	1,300	1,300	- -	0.28 U	0.27 U	0.26 U	0.27 U	3 U	3 U
2-Methylnaphthalene	mg/kg	- -	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	- -	NA	NA	NA	NA	0.42 U	0.4 U
4-Methyl-2-pentanone	mg/kg	2,700	2,700	- -	2,700	100	60,000,000	2,700	70,000	53,000	53,000	- -	0.28 U	0.27 U	0.26 U	0.27 U	3 U	3 U
Acetone	mg/kg	110,000	110,000	34	73,000	42	170,000,000	110,000	200,000	160,000	160,000	- -	0.28 UJ	0.27 UJ	0.26 UJ	0.27 UJ	1 U	1 U
Acrylonitrile	mg/kg	8,300	280	0.1	74	0.22	58,000	35	31	17	17	- -	NA	NA	NA	NA	0.1 U	0.1 U
Benzene	mg/kg	400	220	4	400	0.1	470,000	8.4	230	99	45	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.06 U	0.06 U
Bromobenzene	mg/kg	760	360	- -	760	1.5	240,000	580	540	540	540	- -	NA	NA	NA	NA	0.1 U	0.1 U
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.1 U	0.1 U
Bromodichloromethane	mg/kg	1,500	280	- -	490	1.6	110,000	6.4	57	31	31	- -	0.079 U	0.075 U	0.074 U	0.075 U	0.1 U	0.1 U
Bromoform	mg/kg	870	870	- -	870	1.6	3,600,000	770	3,100	3,100	3,100	- -	0.079 U	0.075 U	0.074 U	0.075 U	0.1 U	0.1 U
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	1.6	140	57	13	- -	0.17 U	0.16 U	0.16 U	0.16 U	0.3 U	0.2 U
Carbon Disulfide	mg/kg	280	280	- -	280	46	21,000,000	140	19,000	8,000	1,600	- -	0.17 U	0.16 U	0.16 U	0.16 U	0.3 U	0.3 U
Carbon Tetrachloride	mg/kg	390	92	0.9	390	0.1	170,000	0.99	79	34	12	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.06 U	0.06 U
Chlorobenzene	mg/kg	260	260	0.5	260	2	2,100,000	220	2,100	1,100	920	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.06 U	0.06 U
Chloroethane	mg/kg	950	950	22	950	34	290,000,000	950	280,000	120,000	36,000	- -	0.17 UJ	0.16 UJ	0.16 UJ	0.16 UJ	0.3 U	0.3 U
Chloroform	mg/kg	1,500	1,500	7	1,500	1.6	1,600,000	38	790	340	150	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.06 U	0.06 U
Chloromethane	mg/kg	1,100	1,100	- -	1,100	22	2,600,000	10	2,500	1,000	120	- -	0.031 J	0.16 U	0.16 U	0.16 U	0.3 U	0.3 U
cis-1,2-Dichloroethene	mg/kg	640	640	12	640	1.4	1,000,000	41	1,000	430	210	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.06 U	0.06 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.06 U	0.06 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.17 UJ	0.16 U	0.16 UJ	0.16 UJ	NA	NA
Dibromochloromethane	mg/kg	610	360	- -	500	1.6	160,000	21	98	80	80	- -	0.079 U	0.075 U	0.074 U	0.075 U	0.1 U	0.1 U
Dibromomethane	mg/kg	2,000	2,000	- -	2,000	4.6	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.3 U	0.3 U
Dichlorodifluoromethane	mg/kg	1,000	1,000	- -	1,000	270	1,500,000,000	1,700	1,400,000	550,000	63,000	- -	0.079 U	0.075 U	0.074 U	0.075 U	0.3 U	0.3 U
Diethyl ether	mg/kg	7,400	7,400	- -	7,400	0.2	350,000,000	7,400	350,000	160,000	100,000	- -	NA	NA	NA	NA	0.3 U	0.2 U
Ethylbenzene	mg/kg	140	140	0.36	140	1.5	13,000,000	140	6,500	3,100	2,400	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.06 U	0.06 U
Hexachloroethane	mg/kg	- -	110	1.8	730	1.2	100,000	79	1,400	1,400	660	- -	NA	NA	NA	NA	0.4 U	0.4 U
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.1 U	0.1 U
Isopropylbenzene	mg/kg	390	390	3.2	390	260	2,600,000	390	3,000	2,000	2,000	- -	0.17 U	0.16 U	0.16 U	0.16 U	0.3 U	0.3 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.079 U	0.049 J	0.074 U	0.075 U	0.1 U	0.1 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.16 U	0.16 U	0.16 U	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	5,900	140	5,900	0.8	88,000,000	5,900	89,000	41,000	30,000	- -	0.28 U	0.27 U	0.26 U	0.27 U	0.3 U	0.2 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.16 U	0.16 U	0.16 U	NA	NA
Methylene Chloride	mg/kg	2,300	2,300	30	2,300	0.1	8,300,000	240	4,000	1,700	700	- -	0.17 U	0.16 U	0.16 U	0.16 U	0.1 U	0.1 U

Table 2B
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-05 14.6 - 16.6 08/24/01	RFI-38-06 0.5 - 2.5 08/24/01	RFI-38-06 8.5 - 10.5 08/24/01	RFI-38-06 12.5 - 14.5 08/24/01	RFI-38-07 0.8 - 2 10/11/12	RFI-38-07 5 - 7 10/11/12
Naphthalene	mg/kg	- -	2,100	0.73	52,000	100	88,000	470	350	350	350	- -	NA	NA	NA	NA	0.42 U	0.4 U
n-Butylbenzene	mg/kg	10,000	120	- -	8,000	4.6	880,000	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.06 U	0.06 U
n-Propylbenzene	mg/kg	10,000	300	- -	8,000	4.6	590,000	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.1 U	0.1 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.06 U	0.06 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.1 U	0.1 U
sec-Butylbenzene	mg/kg	10,000	88	- -	8,000	4.6	180,000	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.06 U	0.06 U
Styrene	mg/kg	520	270	2.1	520	2.7	6,900,000	520	4,200	3,300	3,300	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.06 U	0.06 U
tert-Butylbenzene	mg/kg	10,000	180	- -	8,000	4.6	290,000	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.06 U	0.06 U
Tetrachloroethene	mg/kg	88	88	1.2	88	0.1	6,800,000	60	3,300	1,400	600	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.06 U	0.06 U
Tetrahydrofuran	mg/kg	120,000	32,000	220	9,500	5.4	170,000,000	2,400	160,000	67,000	15,000	- -	NA	NA	NA	NA	1 U	1 U
Toluene	mg/kg	250	250	5.4	250	16	12,000,000	250	36,000	36,000	3,300	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.1 U	0.1 U
trans-1,2-Dichloroethene	mg/kg	1,400	1,400	30	1,400	2	2,100,000	43	2,000	840	330	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.06 U	0.06 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.06 U	0.06 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.06 U	0.06 U
Trichloroethene	mg/kg	500	440	4	500	0.1	2,300,000	37	1,100	440	260	- -	0.04 U	0.037 U	0.037 U	0.071	0.06 U	0.06 U
Trichlorofluoromethane	mg/kg	560	560	- -	560	150	1,700,000,000	560	140,000,000	140,000,000	110,000	- -	0.079 U	0.075 U	0.074 U	0.075 U	0.1 U	0.1 U
Atrazine	mg/kg	- -	110	0.15	330	0.06	- -	- -	- -	- -	- -	- -	0.19 U	0.18 UJ	0.18 U	0.18 U	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.18 U	0.18 U	0.18 U	NA	NA
Benzo(a)anthracene	mg/kg	- -	- -	- -	80	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.18 UJ	0.18 U	0.18 U	0.33 U	0.33 U
Benzo(a)pyrene	mg/kg	- -	- -	- -	8	- -	1,900	- -	- -	- -	- -	- -	0.19 UJ	0.0432 J	0.18 U	0.18 UJ	0.33 U	0.33 U
Benzo(b)fluoranthene	mg/kg	- -	- -	- -	80	- -	- -	- -	- -	- -	- -	- -	0.19 UJ	0.18 UJ	0.18 U	0.18 UJ	0.33 U	0.33 U
Benzo(g,h,i)perylene	mg/kg	- -	- -	- -	7,000	- -	350,000	- -	- -	- -	- -	- -	0.19 UJ	0.18 UJ	0.18 U	0.18 UJ	0.33 U	0.33 U
Benzo(k)fluoranthene	mg/kg	- -	- -	- -	800	- -	- -	- -	- -	- -	- -	- -	0.19 UJ	0.18 UJ	0.18 U	0.18 UJ	0.33 U	0.33 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.18 U	0.18 U	0.18 U	0.33 U	0.33 U
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1	58	0.17	12,000	44	13	13	13	- -	0.038 U	0.035 U	0.035 U	0.035 U	0.33 U	0.33 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	- -	10,000	- -	890,000	- -	- -	- -	- -	- -	0.138 J	0.18 UJ	0.18 U	0.326	0.33 U	0.33 U
Butylbenzylphthalate	mg/kg	310	310	120	310	310	21,000,000	- -	- -	- -	- -	- -	0.19 U	0.18 UJ	0.18 U	0.18 U	0.33 U	0.33 U
Caprolactam	mg/kg	- -	1,000,000	- -	310,000	340	290,000	- -	- -	- -	- -	- -	0.19 U	0.18 U	0.18 U	0.18 U	NA	NA
Carbazole	mg/kg	- -	820	1.1	2,400	39	78,000	- -	- -	- -	- -	- -	0.19 U	0.18 UJ	0.18 U	0.18 U	NA	NA
Chrysene	mg/kg	- -	- -	- -	8,000	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.0385 J	0.18 U	0.18 U	0.33 U	0.33 U
Dibenzo(a,h)anthracene	mg/kg	- -	- -	- -	8	- -	- -	- -	- -	- -	- -	- -	0.19 UJ	0.18 UJ	0.18 U	0.18 UJ	0.33 U	0.33 U
Dibenzofuran	mg/kg	- -	- -	1.7	- -	- -	2,900	3,600	160	160	160	- -	0.19 U	0.18 U	0.18 U	0.18 U	0.33 U	0.33 U
Diethylphthalate	mg/kg	740	740	2.2	740	320	1,500,000	- -	- -	- -	- -	- -	0.19 U	0.18 U	0.18 U	0.18 U	0.33 U	0.33 U
Dimethylphthalate	mg/kg	790	790	- -	790	790	1,500,000	- -	- -	- -	- -	- -	0.19 U	0.18 U	0.18 U	0.18 U	0.33 U	0.33 U
Di-n-Butylphthalate	mg/kg	760	760	11	760	760	1,500,000	- -	- -	- -	- -	- -	0.19 U	0.18 UJ	0.18 U	0.18 U	0.33 U	0.33 U
Di-n-Octylphthalate	mg/kg	140,000	140,000	- -	20,000	140,000	14,000,000	- -	- -	- -	- -	- -	0.19 UJ	0.18 UJ	0.18 U	0.18 UJ	0.33 U	0.33 U
Fluoranthene	mg/kg	- -	730	5.5	130,000	730	4,100,000	1,000,000	880,000	880,000	890,000	- -	0.0664 J	0.18 UJ	0.18 U	0.18 U	0.33 U	0.33 U
Fluorene	mg/kg	- -	890	5.3	87,000	890	4,100,000	1,000,000	150,000	150,000	150,000	- -	0.19 U	0.18 U	0.18 U	0.18 U	0.33 U	0.33 U
Hexachlorobenzene	mg/kg	- -	8.2	0.35	37	1.8	8,500	220	56	56	56	- -	0.19 U	0.18 UJ	0.18 U	0.18 U	0.33 U	0.33 U
Hexachlorobutadiene	mg/kg	350	350	0.091	350	72	180,000	350	460	460	460	- -	0.19 U	0.18 U	0.18 U	0.18 U	0.33 U	0.33 U
Hexachlorocyclopentadiene	mg/kg	720	720	- -	720	320	5,900	56	60	60	60	- -	0.19 U	0.18 U	0.18 U	0.18 U	0.33 U	0.33 U
Hexachloroethane	mg/kg	- -	110	1.8	730	1.2	100,000	79	1,400	1,400	660	- -	0.19 U	0.18 U	0.18 U	0.18 U	0.33 U	0.33 U
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	80	- -	- -	- -	- -	- -	- -	- -	0.19 UJ	0.18 UJ	0.18 U	0.18 UJ	0.33 U	0.33 U
Isophorone	mg/kg	2,400	2,400	26	2,400	62	8,200,000	- -	- -	- -	- -	- -	0.19 U	0.18 U	0.18 U	0.18 U	0.33 U	0.33 U
Methylphenols, Total	mg/kg	- -	16,000	1	36,000	20	2,900,000	- -	- -	- -	- -	- -	0.19 U	0.18 U	0.18 U	0.18 U	NA	NA
Naphthalene	mg/kg	- -	2,100	0.73	52,000	100	88,000	470	350	350	350	- -	0.19 U	0.18 U	0.18 U	0.18 U	0.33 U	0.33 U
Nitrobenzene	mg/kg	490	220	3.6	340	0.33	21,000	170	64	64	64	- -	0.076 U	0.072 U	0.071 U	0.07 U	0.33 U	0.33 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	- -	5.4	0.33	2,000	- -	- -	- -	- -	- -	0.19 U	0.18 U	0.18 U	0.18 U	0.33 U	0.33 U
N-Nitrosodiphenylamine	mg/kg	- -	700	- -	7,800	22	2,800,000	- -	- -	- -	- -	- -	0.19 U	0.18 UJ	0.18 U	0.18 U	0.33 U	0.33 U
Pentachlorophenol	mg/kg	- -	4.3	26.5	320	0.022	130,000	- -	- -	- -	- -	- -	0.76 U	0.72 UJ	0.71 U	0.7 U	0.33 U	0.33 U
Phenanthrene	mg/kg	- -	1,100	2.1	5,200	160	2,900	5,100	190	190	190	- -	0.0724 J	0.18 UJ	0.18 U	0.18 U	0.33 U	0.33 U
Phenol	mg/kg	12,000	12,000	9	12,000	260	18,000,000	- -	- -	- -	- -	- -	0.19 U	0.18 U	0.18 U	0.18 U	0.33 U	0.33 U
Pyrene	mg/kg	- -	480	- -	84,000	480	2,900,000	1,000,000	780,000	780,000	780,000	- -	0.0652 J	0.18 UJ	0.18 U	0.18 U	0.33 U	0.33 U
PCB																		

Table 2B
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-05 14.6 - 16.6 08/24/01	RFI-38-06 0.5 - 2.5 08/24/01	RFI-38-06 8.5 - 10.5 08/24/01	RFI-38-06 12.5 - 14.5 08/24/01	RFI-38-07 0.8 - 2 10/11/12	RFI-38-07 5 - 7 10/11/12
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.04 U	0.038 U	0.037 U	0.037 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.04 U	0.038 U	0.037 U	0.037 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.04 U	0.038 U	0.037 U	0.037 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.04 U	0.038 U	0.037 U	0.037 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.04 U	0.038 U	0.037 U	0.037 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.04 U	0.038 U	0.037 U	0.037 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.04 U	0.038 U	0.037 U	0.037 U	0.33 U	0.33 U
Total PCBs	mg/kg	- -	- -	- -	- -	- -	6,500	16,000	28,000	28,000	810	- -	0.04 U	0.038 U	0.037 U	0.037 U	NA	NA
Inorganic																		
Antimony	mg/kg	- -	49,000	94	670	4.3	5,900	- -	- -	- -	- -	- -	0.25 U	0.24 U	0.23 U	0.27 J	0.5 U	0.5 U
Arsenic	mg/kg	- -	2,000	4.6	37	4.6	910	- -	- -	- -	- -	5.8	4.4	4.7	1.7 U	3.6	0.85	0.82
Barium	mg/kg	- -	1,000,000	858	130,000	1,300	150,000	- -	- -	- -	- -	75	16	24	5.4	5.5	10.8	10.8
Beryllium	mg/kg	- -	1,000,000	408	1,600	51	590	- -	- -	- -	- -	- -	0.19	0.28	0.1	0.072 J	0.2 U	0.2 U
Cadmium	mg/kg	- -	230,000	5.74	2,100	6	2,200	- -	- -	- -	- -	1.2	0.13	0.11	0.071	0.15	0.2 U	0.2 U
Chromium Total	mg/kg	- -	- -	4,960,000	- -	- -	- -	- -	- -	- -	- -	18	6.7	9.5	4.6	3.9	1.45	1.48
Cobalt	mg/kg	- -	48,000	2	9,000	2	5,900	- -	- -	- -	- -	6.8	3.3	4.9	1.9	2.2	2.3	1.55
Copper	mg/kg	- -	1,000,000	124	73,000	5,800	59,000	- -	- -	- -	- -	32	9.9	6.2	4.6	6.1	1.66	2.56
Cyanide (total)	mg/kg	- -	250	0.1	250	4	250	- -	- -	- -	- -	0.39	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U
Lead	mg/kg	- -	- -	5,450	900	700	44,000	- -	- -	- -	- -	21	6.8	12	4.7	4.8	3.71	4.03
Manganese	mg/kg	- -	180,000	95.3	90,000	1	1,500	- -	- -	- -	- -	440	140	160	74	94	110	128
Mercury	mg/kg	- -	47	0.05	580	1.7	8,800	89	62	62	62	0.13	0.08 U	0.0235 J	0.074 U	0.073 U	0.05 U	0.05 U
Nickel	mg/kg	- -	1,000,000	129	150,000	100	16,000	- -	- -	- -	- -	20	8.5	9.6	5.4	6	1.85	2.24
Selenium	mg/kg	- -	78,000	0.4	9,600	4	59,000	- -	- -	- -	- -	0.41	0.1 U	0.1	0.098	0.25	0.4 U	0.4 U
Silver	mg/kg	- -	200,000	0.1	9,000	13	2,900	- -	- -	- -	- -	1	0.11 J	0.11 J	0.093 J	0.15 J	0.1 U	0.1 U
Thallium	mg/kg	- -	15,000	4.2	130	2.3	5,900	- -	- -	- -	- -	- -	0.06 J	0.088 J	0.026 J	0.046 J	0.2 U	0.2 U
Vanadium	mg/kg	- -	1,000,000	190	5,500	990	- -	- -	- -	- -	- -	- -	14	15	7.8	8.2	NA	NA
Zinc	mg/kg	- -	1,000,000	280	630,000	5,000	- -	- -	- -	- -	- -	47	36	28	21	19	3.92	4.97

Table 2B
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-08 0.7 - 2 10/11/12	RFI-38-08 3 - 4 10/11/12	RFI-38-09 0.4 - 1.1 10/11/12	RFI-38-10 0.9 - 2 10/12/12
VOC																
1,1,1,2-Tetrachloroethane	mg/kg	440	440	- -	440	6.4	530,000	33	330	210	120	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]
1,1,1-Trichloroethane	mg/kg	460	460	1.8	460	4	29,000,000	460	31,000	15,000	4,500	- -	0.07 U	0.06 U	0.07 U	0.07 U [0.06 U]
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6	240	0.7	68,000	23	34	34	34	- -	0.07 U	0.06 U	0.07 U	0.07 U [0.06 U]
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	550	1.7	550	550	2,300,000,000	550	2,100,000	890,000	210,000	- -	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	420	6.6	840	0.1	250,000	24	120	57	57	- -	0.07 U	0.06 U	0.07 U	0.07 U [0.06 U]
1,1-Dichloroethane	mg/kg	890	890	15	890	50	15,000,000	430	14,000	6,000	2,500	- -	0.07 U	0.06 U	0.07 U	0.07 U [0.06 U]
1,1-Dichloroethene	mg/kg	570	220	2.6	570	0.14	78,000	0.33	37	15	3.7	- -	0.07 U	0.06 U	0.07 U	0.07 U [0.06 U]
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.46 U	0.4 U	0.46 U	0.48 U [0.39 U]
1,2,3-Trichloropropane	mg/kg	830	830	- -	830	2.4	8,800	7.5	12	11	11	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100	5.9	1,100	4.2	11,000,000	1,100	34,000	34,000	34,000	- -	0.46 U	0.4 U	0.46 U	0.48 U [0.39 U]
1,2,4-Trimethylbenzene	mg/kg	110	110	0.57	110	2.1	36,000,000	110	600,000	600,000	25,000	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.4 U	0.3 U	0.4 U	0.4 U [0.3 U]
1,2-Dibromoethane	mg/kg	890	0.5	0.11	0.43	0.02	18,000	3.6	9.8	5.8	5.8	- -	0.03 UM	0.02 UM	0.03 UM	0.03 UM [0.02 UM]
1,2-Dichlorobenzene	mg/kg	210	210	0.28	210	14	44,000,000	210	55,000	46,000	46,000	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]
1,2-Dichloroethane	mg/kg	1,200	380	7.2	420	0.1	150,000	11	74	33	21	- -	0.07 U	0.06 U	0.07 U	0.07 U [0.06 U]
1,2-Dichloropropane	mg/kg	550	320	4.6	550	0.1	120,000	7.4	120	51	30	- -	0.07 U	0.06 U	0.07 U	0.07 U [0.06 U]
1,3,5-Trimethylbenzene	mg/kg	94	94	1.1	94	1.8	36,000,000	94	460,000	460,000	19,000	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170	0.48	88,000	48	110	94	94	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]
1,4-Dichlorobenzene	mg/kg	- -	140	0.36	1,900	1.7	570,000	100	340	260	260	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]
2-Butanone	mg/kg	27,000	27,000	44	27,000	760	29,000,000	27,000	36,000	35,000	35,000	- -	1.1 U	0.9 U	1.1 U	1.1 U [0.89 U]
2-Hexanone	mg/kg	2,500	2,500	- -	2,500	58	1,200,000	1,800	1,500	1,300	1,300	- -	4 U	3 U	4 U	4 U [3 U]
2-Methylnaphthalene	mg/kg	- -	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	- -	0.46 U	0.4 U	0.46 U	0.48 U [0.39 U]
4-Methyl-2-pentanone	mg/kg	2,700	2,700	- -	2,700	100	60,000,000	2,700	70,000	53,000	53,000	- -	4 U	3 U	4 U	4 U [3 U]
Acetone	mg/kg	110,000	110,000	34	73,000	42	170,000,000	110,000	200,000	160,000	160,000	- -	1 U	1 U	1 U	1 U [1 U]
Acrylonitrile	mg/kg	8,300	280	0.1	74	0.22	58,000	35	31	17	17	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]
Benzene	mg/kg	400	220	4	400	0.1	470,000	8.4	230	99	45	- -	0.07 U	0.06 U	0.07 U	0.07 U [0.06 U]
Bromobenzene	mg/kg	760	360	- -	760	1.5	240,000	580	540	540	540	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]
Bromodichloromethane	mg/kg	1,500	280	- -	490	1.6	110,000	6.4	57	31	31	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]
Bromoform	mg/kg	870	870	- -	870	1.6	3,600,000	770	3,100	3,100	3,100	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	1.6	140	57	13	- -	0.3 U	0.2 U	0.3 U	0.3 U [0.2 U]
Carbon Disulfide	mg/kg	280	280	- -	280	46	21,000,000	140	19,000	8,000	1,600	- -	0.4 U	0.3 U	0.4 U	0.4 U [0.3 U]
Carbon Tetrachloride	mg/kg	390	92	0.9	390	0.1	170,000	0.99	79	34	12	- -	0.07 U	0.06 U	0.07 U	0.07 U [0.06 U]
Chlorobenzene	mg/kg	260	260	0.5	260	2	2,100,000	220	2,100	1,100	920	- -	0.07 U	0.06 U	0.07 U	0.07 U [0.06 U]
Chloroethane	mg/kg	950	950	22	950	34	290,000,000	950	280,000	120,000	36,000	- -	0.4 U	0.3 U	0.4 U	0.4 U [0.3 U]
Chloroform	mg/kg	1,500	1,500	7	1,500	1.6	1,600,000	38	790	340	150	- -	0.07 U	0.06 U	0.07 U	0.07 U [0.06 U]
Chloromethane	mg/kg	1,100	1,100	- -	1,100	22	2,600,000	10	2,500	1,000	120	- -	0.4 U	0.3 U	0.4 U	0.4 U [0.3 U]
cis-1,2-Dichloroethene	mg/kg	640	640	12	640	1.4	1,000,000	41	1,000	430	210	- -	0.07 U	0.06 U	0.07 U	0.07 U [0.06 U]
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.07 U	0.06 U	0.07 U	0.07 U [0.06 U]
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	360	- -	500	1.6	160,000	21	98	80	80	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]
Dibromomethane	mg/kg	2,000	2,000	- -	2,000	4.6	- -	- -	- -	- -	- -	- -	0.4 U	0.3 U	0.4 U	0.4 U [0.3 U]
Dichlorodifluoromethane	mg/kg	1,000	1,000	- -	1,000	270	1,500,000,000	1,700	1,400,000	550,000	63,000	- -	0.4 U	0.3 U	0.4 U	0.4 U [0.3 U]
Diethyl ether	mg/kg	7,400	7,400	- -	7,400	0.2	350,000,000	7,400	350,000	160,000	100,000	- -	0.3 U	0.2 U	0.3 U	0.3 U [0.2 U]
Ethylbenzene	mg/kg	140	140	0.36	140	1.5	13,000,000	140	6,500	3,100	2,400	- -	0.07 U	0.06 U	0.07 U	0.07 U [0.06 U]
Hexachloroethane	mg/kg	- -	110	1.8	730	1.2	100,000	79	1,400	1,400	660	- -	0.4 U	0.4 U	0.4 U	0.4 U [0.4 U]
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]
Isopropylbenzene	mg/kg	390	390	3.2	390	260	2,600,000	390	3,000	2,000	2,000	- -	0.4 U	0.3 U	0.4 U	0.4 U [0.3 U]
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	5,900	140	5,900	0.8	88,000,000	5,900	89,000	41,000	30,000	- -	0.3 U	0.2 U	0.3 U	0.3 U [0.2 U]
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	2,300	30	2,300	0.1	8,300,000	240	4,000	1,700	700	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]

Table 2B
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-08 0.7 - 2 10/11/12	RFI-38-08 3 - 4 10/11/12	RFI-38-09 0.4 - 1.1 10/11/12	RFI-38-10 0.9 - 2 10/12/12
Naphthalene	mg/kg	- -	2,100	0.73	52,000	100	88,000	470	350	350	350	- -	0.46 U	0.4 U	0.46 U	0.48 U [0.39 U]
n-Butylbenzene	mg/kg	10,000	120	- -	8,000	4.6	880,000	- -	- -	- -	- -	- -	0.07 U	0.06 U	0.07 U	0.07 U [0.06 U]
n-Propylbenzene	mg/kg	10,000	300	- -	8,000	4.6	590,000	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.07 U	0.06 U	0.07 U	0.07 U [0.06 U]
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]
sec-Butylbenzene	mg/kg	10,000	88	- -	8,000	4.6	180,000	- -	- -	- -	- -	- -	0.07 U	0.06 U	0.07 U	0.07 U [0.06 U]
Styrene	mg/kg	520	270	2.1	520	2.7	6,900,000	520	4,200	3,300	3,300	- -	0.07 U	0.06 U	0.07 U	0.07 U [0.06 U]
tert-Butylbenzene	mg/kg	10,000	180	- -	8,000	4.6	290,000	- -	- -	- -	- -	- -	0.07 U	0.06 U	0.07 U	0.07 U [0.06 U]
Tetrachloroethene	mg/kg	88	88	1.2	88	0.1	6,800,000	60	3,300	1,400	600	- -	0.07 U	0.06 U	0.07 U	0.07 U [0.06 U]
Tetrahydrofuran	mg/kg	120,000	32,000	220	9,500	5.4	170,000,000	2,400	160,000	67,000	15,000	- -	1 U	1 U	1 U	1 U [1 U]
Toluene	mg/kg	250	250	5.4	250	16	12,000,000	250	36,000	36,000	3,300	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]
trans-1,2-Dichloroethene	mg/kg	1,400	1,400	30	1,400	2	2,100,000	43	2,000	840	330	- -	0.07 U	0.06 U	0.07 U	0.07 U [0.06 U]
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.07 U	0.06 U	0.07 U	0.07 U [0.06 U]
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.07 U	0.06 U	0.07 U	0.07 U [0.06 U]
Trichloroethene	mg/kg	500	440	4	500	0.1	2,300,000	37	1,100	440	260	- -	0.07 U	0.06 U	0.07 U	0.07 U [0.06 U]
Trichlorofluoromethane	mg/kg	560	560	- -	560	150	1,700,000,000	560	140,000,000	140,000,000	110,000	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]
Atrazine	mg/kg	- -	110	0.15	330	0.06	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	- -	- -	- -	80	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Benzo(a)pyrene	mg/kg	- -	- -	- -	8	- -	1,900	- -	- -	- -	- -	- -	0.33 U	0.389	0.33 U	0.33 U [0.33 U]
Benzo(b)fluoranthene	mg/kg	- -	- -	- -	80	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.344	0.33 U	0.33 U [0.33 U]
Benzo(g,h,i)perylene	mg/kg	- -	- -	- -	7,000	- -	350,000	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Benzo(k)fluoranthene	mg/kg	- -	- -	- -	800	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1	58	0.17	12,000	44	13	13	13	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	- -	10,000	- -	890,000	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Butylbenzylphthalate	mg/kg	310	310	120	310	310	21,000,000	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Caprolactam	mg/kg	- -	1,000,000	- -	310,000	340	290,000	- -	- -	- -	- -	- -	NA	NA	NA	NA
Carbazole	mg/kg	- -	820	1.1	2,400	39	78,000	- -	- -	- -	- -	- -	NA	NA	NA	NA
Chrysene	mg/kg	- -	- -	- -	8,000	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.448	0.33 U	0.33 U [0.33 U]
Dibenzo(a,h)anthracene	mg/kg	- -	- -	- -	8	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Dibenzofuran	mg/kg	- -	- -	1.7	- -	- -	2,900	3,600	160	160	160	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Diethylphthalate	mg/kg	740	740	2.2	740	320	1,500,000	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Dimethylphthalate	mg/kg	790	790	- -	790	790	1,500,000	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Di-n-Butylphthalate	mg/kg	760	760	11	760	760	1,500,000	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Di-n-Octylphthalate	mg/kg	140,000	140,000	- -	20,000	140,000	14,000,000	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Fluoranthene	mg/kg	- -	730	5.5	130,000	730	4,100,000	1,000,000	880,000	880,000	890,000	- -	0.33 U	0.578	0.33 U	0.33 U [0.33 U]
Fluorene	mg/kg	- -	890	5.3	87,000	890	4,100,000	1,000,000	150,000	150,000	150,000	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Hexachlorobenzene	mg/kg	- -	8.2	0.35	37	1.8	8,500	220	56	56	56	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Hexachlorobutadiene	mg/kg	350	350	0.091	350	72	180,000	350	460	460	460	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Hexachlorocyclopentadiene	mg/kg	720	720	- -	720	320	5,900	56	60	60	60	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Hexachloroethane	mg/kg	- -	110	1.8	730	1.2	100,000	79	1,400	1,400	660	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	80	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Isophorone	mg/kg	2,400	2,400	26	2,400	62	8,200,000	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Methylphenols, Total	mg/kg	- -	16,000	1	36,000	20	2,900,000	- -	- -	- -	- -	- -	NA	NA	NA	NA
Naphthalene	mg/kg	- -	2,100	0.73	52,000	100	88,000	470	350	350	350	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Nitrobenzene	mg/kg	490	220	3.6	340	0.33	21,000	170	64	64	64	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	- -	5.4	0.33	2,000	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
N-Nitrosodiphenylamine	mg/kg	- -	700	- -	7,800	22	2,800,000	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Pentachlorophenol	mg/kg	- -	4.3	26.5	320	0.022	130,000	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Phenanthrene	mg/kg	- -	1,100	2.1	5,200	160	2,900	5,100	190	190	190	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Phenol	mg/kg	12,000	12,000	9	12,000	260	18,000,000	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Pyrene	mg/kg	- -	480	- -	84,000	480	2,900,000	1,000,000	780,000	780,000	780,000	- -	0.33 U	0.526	0.33 U	0.33 U [0.33 U]
PCB																

Table 2B
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-08 0.7 - 2 10/11/12	RFI-38-08 3 - 4 10/11/12	RFI-38-09 0.4 - 1.1 10/11/12	RFI-38-10 0.9 - 2 10/12/12
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Total PCBs	mg/kg	- -	- -	- -	- -	- -	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA
Inorganic																
Antimony	mg/kg	- -	49,000	94	670	4.3	5,900	- -	- -	- -	- -	- -	0.5 U	0.5 U	0.5 U	0.5 U [0.5 U]
Arsenic	mg/kg	- -	2,000	4.6	37	4.6	910	- -	- -	- -	- -	5.8	0.99	1.73	0.9	0.44 [0.44]
Barium	mg/kg	- -	1,000,000	858	130,000	1,300	150,000	- -	- -	- -	- -	75	11.5	76.9	11.5	6.18 [6.34]
Beryllium	mg/kg	- -	1,000,000	408	1,600	51	590	- -	- -	- -	- -	- -	0.2 U	0.3	0.2 U	0.2 U [0.2 U]
Cadmium	mg/kg	- -	230,000	5.74	2,100	6	2,200	- -	- -	- -	- -	1.2	0.2 U	0.49	0.2 U	0.2 U [0.2 U]
Chromium Total	mg/kg	- -	- -	4,960,000	- -	- -	- -	- -	- -	- -	- -	18	1.89	4.03	1.23	0.8 [0.79]
Cobalt	mg/kg	- -	48,000	2	9,000	2	5,900	- -	- -	- -	- -	6.8	2.75	3.65	1.81	0.66 [0.66]
Copper	mg/kg	- -	1,000,000	124	73,000	5,800	59,000	- -	- -	- -	- -	32	3.08	29.9	1.75	0.9 [1.01]
Cyanide (total)	mg/kg	- -	250	0.1	250	4	250	- -	- -	- -	- -	0.39	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]
Lead	mg/kg	- -	- -	5,450	900	700	44,000	- -	- -	- -	- -	21	7.56	63.4	3.35	1.69 [1.83]
Manganese	mg/kg	- -	180,000	95.3	90,000	1	1,500	- -	- -	- -	- -	440	122	207	146	75.3 [70.5]
Mercury	mg/kg	- -	47	0.05	580	1.7	8,800	89	62	62	62	0.13	0.05 U	0.076	0.05 U	0.05 U [0.05 U]
Nickel	mg/kg	- -	1,000,000	129	150,000	100	16,000	- -	- -	- -	- -	20	2.76	6.99	2.63	3.81 [3.55]
Selenium	mg/kg	- -	78,000	0.4	9,600	4	59,000	- -	- -	- -	- -	0.41	0.4 U	0.4 U	0.4 U	0.4 U [0.4 U]
Silver	mg/kg	- -	200,000	0.1	9,000	13	2,900	- -	- -	- -	- -	1	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]
Thallium	mg/kg	- -	15,000	4.2	130	2.3	5,900	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.2 U	0.2 U [0.2 U]
Vanadium	mg/kg	- -	1,000,000	190	5,500	990	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Zinc	mg/kg	- -	1,000,000	280	630,000	5,000	- -	- -	- -	- -	- -	47	6.56	60.2	5.46	2.97 [3.3]

Table 2B
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-10 5 - 7 10/12/12	RFI-38-11 0.5 - 2 10/11/12	RFI-38-11 3.5 - 4.5 10/11/12	RFI-38-12 0.7 - 1.4 10/12/12	RFI-BG-08 0 - 2 08/29/02
VOC																	
1,1,1,2-Tetrachloroethane	mg/kg	440	440	- -	440	6.4	530,000	33	330	210	120	- -	0.1 U	0.1 U	0.1 U	0.2 U	NA
1,1,1-Trichloroethane	mg/kg	460	460	1.8	460	4	29,000,000	460	31,000	15,000	4,500	- -	0.06 U	0.07 U	0.06 U	0.08 U	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6	240	0.7	68,000	23	34	34	34	- -	0.06 U	0.07 U	0.06 U	0.08 U	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	550	1.7	550	550	2,300,000,000	550	2,100,000	890,000	210,000	- -	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	420	6.6	840	0.1	250,000	24	120	57	57	- -	0.06 U	0.07 U	0.06 U	0.08 U	NA
1,1-Dichloroethane	mg/kg	890	890	15	890	50	15,000,000	430	14,000	6,000	2,500	- -	0.06 U	0.07 U	0.06 U	0.08 U	NA
1,1-Dichloroethene	mg/kg	570	220	2.6	570	0.14	78,000	0.33	37	15	3.7	- -	0.06 U	0.07 U	0.06 U	0.08 U	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.38 U	0.44 U	0.42 U	0.5 U	NA
1,2,3-Trichloropropane	mg/kg	830	830	- -	830	2.4	8,800	7.5	12	11	11	- -	0.1 U	0.1 U	0.1 U	0.2 U	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.2 U	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100	5.9	1,100	4.2	11,000,000	1,100	34,000	34,000	34,000	- -	0.38 U	0.44 U	0.42 U	0.5 U	NA
1,2,4-Trimethylbenzene	mg/kg	110	110	0.57	110	2.1	36,000,000	110	600,000	600,000	25,000	- -	0.1 U	0.1 U	0.1 U	0.2 U	NA
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.4 U	NA
1,2-Dibromoethane	mg/kg	890	0.5	0.11	0.43	0.02	18,000	3.6	9.8	5.8	5.8	- -	0.02 UM	0.03 UM	0.03 UM	0.03 UM	NA
1,2-Dichlorobenzene	mg/kg	210	210	0.28	210	14	44,000,000	210	55,000	46,000	46,000	- -	0.1 U	0.1 U	0.1 U	0.2 U	NA
1,2-Dichloroethane	mg/kg	1,200	380	7.2	420	0.1	150,000	11	74	33	21	- -	0.06 U	0.07 U	0.06 U	0.08 U	NA
1,2-Dichloropropane	mg/kg	550	320	4.6	550	0.1	120,000	7.4	120	51	30	- -	0.06 U	0.07 U	0.06 U	0.08 U	NA
1,3,5-Trimethylbenzene	mg/kg	94	94	1.1	94	1.8	36,000,000	94	460,000	460,000	19,000	- -	0.1 U	0.1 U	0.1 U	0.2 U	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170	0.48	88,000	48	110	94	94	- -	0.1 U	0.1 U	0.1 U	0.2 U	NA
1,4-Dichlorobenzene	mg/kg	- -	140	0.36	1,900	1.7	570,000	100	340	260	260	- -	0.1 U	0.1 U	0.1 U	0.2 U	NA
2-Butanone	mg/kg	27,000	27,000	44	27,000	760	29,000,000	27,000	36,000	35,000	35,000	- -	0.87 U	1 U	0.94 U	1.1 U	NA
2-Hexanone	mg/kg	2,500	2,500	- -	2,500	58	1,200,000	1,800	1,500	1,300	1,300	- -	3 U	3 U	3 U	4 U	NA
2-Methylnaphthalene	mg/kg	- -	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	- -	0.38 U	0.44 U	0.42 U	0.5 U	NA
4-Methyl-2-pentanone	mg/kg	2,700	2,700	- -	2,700	100	60,000,000	2,700	70,000	53,000	53,000	- -	3 U	3 U	3 U	4 U	NA
Acetone	mg/kg	110,000	110,000	34	73,000	42	170,000,000	110,000	200,000	160,000	160,000	- -	1 U	1 U	1 U	2 U	NA
Acrylonitrile	mg/kg	8,300	280	0.1	74	0.22	58,000	35	31	17	17	- -	0.1 U	0.1 U	0.1 U	0.2 U	NA
Benzene	mg/kg	400	220	4	400	0.1	470,000	8.4	230	99	45	- -	0.06 U	0.07 U	0.06 U	0.08 U	NA
Bromobenzene	mg/kg	760	360	- -	760	1.5	240,000	580	540	540	540	- -	0.1 U	0.1 U	0.1 U	0.2 U	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.2 U	NA
Bromodichloromethane	mg/kg	1,500	280	- -	490	1.6	110,000	6.4	57	31	31	- -	0.1 U	0.1 U	0.1 U	0.2 U	NA
Bromoform	mg/kg	870	870	- -	870	1.6	3,600,000	770	3,100	3,100	3,100	- -	0.1 U	0.1 U	0.1 U	0.2 U	NA
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	1.6	140	57	13	- -	0.2 U	0.3 U	0.3 U	0.3 U	NA
Carbon Disulfide	mg/kg	280	280	- -	280	46	21,000,000	140	19,000	8,000	1,600	- -	0.3 U	0.3 U	0.3 U	0.4 U	NA
Carbon Tetrachloride	mg/kg	390	92	0.9	390	0.1	170,000	0.99	79	34	12	- -	0.06 U	0.07 U	0.06 U	0.08 U	NA
Chlorobenzene	mg/kg	260	260	0.5	260	2	2,100,000	220	2,100	1,100	920	- -	0.06 U	0.07 U	0.06 U	0.08 U	NA
Chloroethane	mg/kg	950	950	22	950	34	290,000,000	950	280,000	120,000	36,000	- -	0.3 U	0.3 U	0.3 U	0.4 U	NA
Chloroform	mg/kg	1,500	1,500	7	1,500	1.6	1,600,000	38	790	340	150	- -	0.06 U	0.07 U	0.06 U	0.08 U	NA
Chloromethane	mg/kg	1,100	1,100	- -	1,100	22	2,600,000	10	2,500	1,000	120	- -	0.3 U	0.3 U	0.3 U	0.4 U	NA
cis-1,2-Dichloroethene	mg/kg	640	640	12	640	1.4	1,000,000	41	1,000	430	210	- -	0.06 U	0.07 U	0.06 U	0.08 U	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.07 U	0.06 U	0.08 U	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	360	- -	500	1.6	160,000	21	98	80	80	- -	0.1 U	0.1 U	0.1 U	0.2 U	NA
Dibromomethane	mg/kg	2,000	2,000	- -	2,000	4.6	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.4 U	NA
Dichlorodifluoromethane	mg/kg	1,000	1,000	- -	1,000	270	1,500,000,000	1,700	1,400,000	550,000	63,000	- -	0.3 U	0.3 U	0.3 U	0.4 U	NA
Diethyl ether	mg/kg	7,400	7,400	- -	7,400	0.2	350,000,000	7,400	350,000	160,000	100,000	- -	0.2 U	0.3 U	0.3 U	0.3 U	NA
Ethylbenzene	mg/kg	140	140	0.36	140	1.5	13,000,000	140	6,500	3,100	2,400	- -	0.06 U	0.07 U	0.06 U	0.08 U	NA
Hexachloroethane	mg/kg	- -	110	1.8	730	1.2	100,000	79	1,400	1,400	660	- -	0.3 U	0.4 U	0.4 U	0.5 U	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.2 U	NA
Isopropylbenzene	mg/kg	390	390	3.2	390	260	2,600,000	390	3,000	2,000	2,000	- -	0.3 U	0.3 U	0.3 U	0.4 U	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.2 U	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	5,900	140	5,900	0.8	88,000,000	5,900	89,000	41,000	30,000	- -	0.2 U	0.3 U	0.3 U	0.3 U	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	2,300	30	2,300	0.1	8,300,000	240	4,000	1,700	700	- -	0.1 U	0.1 U	0.1 U	0.2 U	NA

Table 2B
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-10 5 - 7 10/12/12	RFI-38-11 0.5 - 2 10/11/12	RFI-38-11 3.5 - 4.5 10/11/12	RFI-38-12 0.7 - 1.4 10/12/12	RFI-BG-08 0 - 2 08/29/02
Naphthalene	mg/kg	- -	2,100	0.73	52,000	100	88,000	470	350	350	350	- -	0.38 U	0.44 U	0.42 U	0.5 U	NA
n-Butylbenzene	mg/kg	10,000	120	- -	8,000	4.6	880,000	- -	- -	- -	- -	- -	0.06 U	0.07 U	0.06 U	0.08 U	NA
n-Propylbenzene	mg/kg	10,000	300	- -	8,000	4.6	590,000	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.2 U	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.07 U	0.06 U	0.08 U	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.2 U	NA
sec-Butylbenzene	mg/kg	10,000	88	- -	8,000	4.6	180,000	- -	- -	- -	- -	- -	0.06 U	0.07 U	0.06 U	0.08 U	NA
Styrene	mg/kg	520	270	2.1	520	2.7	6,900,000	520	4,200	3,300	3,300	- -	0.06 U	0.07 U	0.06 U	0.08 U	NA
tert-Butylbenzene	mg/kg	10,000	180	- -	8,000	4.6	290,000	- -	- -	- -	- -	- -	0.06 U	0.07 U	0.06 U	0.08 U	NA
Tetrachloroethene	mg/kg	88	88	1.2	88	0.1	6,800,000	60	3,300	1,400	600	- -	0.06 U	0.07 U	0.06 U	0.08 U	NA
Tetrahydrofuran	mg/kg	120,000	32,000	220	9,500	5.4	170,000,000	2,400	160,000	67,000	15,000	- -	1 U	1 U	1 U	2 U	NA
Toluene	mg/kg	250	250	5.4	250	16	12,000,000	250	36,000	36,000	3,300	- -	0.1 U	0.1 U	0.1 U	0.2 U	NA
trans-1,2-Dichloroethene	mg/kg	1,400	1,400	30	1,400	2	2,100,000	43	2,000	840	330	- -	0.06 U	0.07 U	0.06 U	0.08 U	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.07 U	0.06 U	0.08 U	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.07 U	0.06 U	0.08 U	NA
Trichloroethene	mg/kg	500	440	4	500	0.1	2,300,000	37	1,100	440	260	- -	0.06 U	0.07 U	0.06 U	0.08 U	NA
Trichlorofluoromethane	mg/kg	560	560	- -	560	150	1,700,000,000	560	140,000,000	140,000,000	110,000	- -	0.1 U	0.1 U	0.1 U	0.2 U	NA
Atrazine	mg/kg	- -	110	0.15	330	0.06	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	- -	- -	- -	80	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Benzo(a)pyrene	mg/kg	- -	- -	- -	8	- -	1,900	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Benzo(b)fluoranthene	mg/kg	- -	- -	- -	80	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Benzo(g,h,i)perylene	mg/kg	- -	- -	- -	7,000	- -	350,000	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Benzo(k)fluoranthene	mg/kg	- -	- -	- -	800	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1	58	0.17	12,000	44	13	13	13	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	- -	10,000	- -	890,000	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Butylbenzylphthalate	mg/kg	310	310	120	310	310	21,000,000	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Caprolactam	mg/kg	- -	1,000,000	- -	310,000	340	290,000	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Carbazole	mg/kg	- -	820	1.1	2,400	39	78,000	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Chrysene	mg/kg	- -	- -	- -	8,000	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Dibenzo(a,h)anthracene	mg/kg	- -	- -	- -	8	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Dibenzofuran	mg/kg	- -	- -	1.7	- -	- -	2,900	3,600	160	160	160	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Diethylphthalate	mg/kg	740	740	2.2	740	320	1,500,000	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Dimethylphthalate	mg/kg	790	790	- -	790	790	1,500,000	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Di-n-Butylphthalate	mg/kg	760	760	11	760	760	1,500,000	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Di-n-Octylphthalate	mg/kg	140,000	140,000	- -	20,000	140,000	14,000,000	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Fluoranthene	mg/kg	- -	730	5.5	130,000	730	4,100,000	1,000,000	880,000	880,000	890,000	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Fluorene	mg/kg	- -	890	5.3	87,000	890	4,100,000	1,000,000	150,000	150,000	150,000	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Hexachlorobenzene	mg/kg	- -	8.2	0.35	37	1.8	8,500	220	56	56	56	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Hexachlorobutadiene	mg/kg	350	350	0.091	350	72	180,000	350	460	460	460	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Hexachlorocyclopentadiene	mg/kg	720	720	- -	720	320	5,900	56	60	60	60	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Hexachloroethane	mg/kg	- -	110	1.8	730	1.2	100,000	79	1,400	1,400	660	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	80	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Isophorone	mg/kg	2,400	2,400	26	2,400	62	8,200,000	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Methylphenols, Total	mg/kg	- -	16,000	1	36,000	20	2,900,000	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Naphthalene	mg/kg	- -	2,100	0.73	52,000	100	88,000	470	350	350	350	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Nitrobenzene	mg/kg	490	220	3.6	340	0.33	21,000	170	64	64	64	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	- -	5.4	0.33	2,000	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
N-Nitrosodiphenylamine	mg/kg	- -	700	- -	7,800	22	2,800,000	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Pentachlorophenol	mg/kg	- -	4.3	26.5	320	0.022	130,000	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Phenanthrene	mg/kg	- -	1,100	2.1	5,200	160	2,900	5,100	190	190	190	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Phenol	mg/kg	12,000	12,000	9	12,000	260	18,000,000	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Pyrene	mg/kg	- -	480	- -	84,000	480	2,900,000	1,000,000	780,000	780,000	780,000	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
PCB																	

Table 2B
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-38-10 5 - 7 10/12/12	RFI-38-11 0.5 - 2 10/11/12	RFI-38-11 3.5 - 4.5 10/11/12	RFI-38-12 0.7 - 1.4 10/12/12	RFI-BG-08 0 - 2 08/29/02
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	NA
Total PCBs	mg/kg	- -	- -	- -	- -	- -	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA
Inorganic																	
Antimony	mg/kg	- -	49,000	94	670	4.3	5,900	- -	- -	- -	- -	- -	0.5 U	0.5 U	0.5 U	0.5 U	0.027 J
Arsenic	mg/kg	- -	2,000	4.6	37	4.6	910	- -	- -	- -	- -	5.8	0.94	0.96	1	3.04	**8.5 J**
Barium	mg/kg	- -	1,000,000	858	130,000	1,300	150,000	- -	- -	- -	- -	75	6.53	11.4	13.4	340	80 J
Beryllium	mg/kg	- -	1,000,000	408	1,600	51	590	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.2 U	2.7	0.42
Cadmium	mg/kg	- -	230,000	5.74	2,100	6	2,200	- -	- -	- -	- -	1.2	0.2 U	0.2 U	0.2 U	0.94	0.34 J
Chromium Total	mg/kg	- -	- -	4,960,000	- -	- -	- -	- -	- -	- -	- -	18	1	1.33	1.3	199	16 J
Cobalt	mg/kg	- -	48,000	2	9,000	2	5,900	- -	- -	- -	- -	6.8	1.06	1.53	1.83	**70.1**	6.7 J
Copper	mg/kg	- -	1,000,000	124	73,000	5,800	59,000	- -	- -	- -	- -	32	3.14	1.5	1.82	**127**	13 J
Cyanide (total)	mg/kg	- -	250	0.1	250	4	250	- -	- -	- -	- -	0.39	0.1 U	0.1 U	0.1 U	0.1 U	NA
Lead	mg/kg	- -	- -	5,450	900	700	44,000	- -	- -	- -	- -	21	3.16	3.37	3.16	133	30 J
Manganese	mg/kg	- -	180,000	95.3	90,000	1	1,500	- -	- -	- -	- -	440	52.7	171	187	**6,750**	**500**
Mercury	mg/kg	- -	47	0.05	580	1.7	8,800	89	62	62	62	0.13	0.05 U	0.05 U	0.05 U	0.05 U	0.0556 J
Nickel	mg/kg	- -	1,000,000	129	150,000	100	16,000	- -	- -	- -	- -	20	1.79	2.34	2.87	68.9	14 J
Selenium	mg/kg	- -	78,000	0.4	9,600	4	59,000	- -	- -	- -	- -	0.41	0.4 U	0.4 U	0.4 U	0.4 U	0.039 J
Silver	mg/kg	- -	200,000	0.1	9,000	13	2,900	- -	- -	- -	- -	1	0.1 U	0.1 U	0.1 U	**1.08**	0.094 J
Thallium	mg/kg	- -	15,000	4.2	130	2.3	5,900	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.2 U	0.2 U	0.15 J
Vanadium	mg/kg	- -	1,000,000	190	5,500	990	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	24 J
Zinc	mg/kg	- -	1,000,000	280	630,000	5,000	- -	- -	- -	- -	- -	47	6.54	4.47	5.49	**518**	85 J

Table 2B
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-BG-08-2 0.6 - 2 10/12/12	RFI-BG-09 0 - 2 08/29/02	RFI-BG-09-2 0.5 - 1 10/11/12	RFI-BG-10 0 - 2 08/29/02	RFI-BG-10-2 0.6 - 1 10/11/12
VOC																	
1,1,1,2-Tetrachloroethane	mg/kg	440	440	- -	440	6.4	530,000	33	330	210	120	- -	0.1 U	NA	0.1 U	NA	0.1 U
1,1,1-Trichloroethane	mg/kg	460	460	1.8	460	4	29,000,000	460	31,000	15,000	4,500	- -	0.07 U	NA	0.07 U	NA	0.07 U
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6	240	0.7	68,000	23	34	34	34	- -	0.07 U	NA	0.07 U	NA	0.07 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	550	1.7	550	550	2,300,000,000	550	2,100,000	890,000	210,000	- -	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	420	6.6	840	0.1	250,000	24	120	57	57	- -	0.07 U	NA	0.07 U	NA	0.07 U
1,1-Dichloroethane	mg/kg	890	890	15	890	50	15,000,000	430	14,000	6,000	2,500	- -	0.07 U	NA	0.07 U	NA	0.07 U
1,1-Dichloroethene	mg/kg	570	220	2.6	570	0.14	78,000	0.33	37	15	3.7	- -	0.07 U	NA	0.07 U	NA	0.07 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.46 U	NA	0.49 U	NA	0.43 U
1,2,3-Trichloropropane	mg/kg	830	830	- -	830	2.4	8,800	7.5	12	11	11	- -	0.1 U	NA	0.1 U	NA	0.1 U
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	0.1 U
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100	5.9	1,100	4.2	11,000,000	1,100	34,000	34,000	34,000	- -	0.46 U	NA	0.49 U	NA	0.43 U
1,2,4-Trimethylbenzene	mg/kg	110	110	0.57	110	2.1	36,000,000	110	600,000	600,000	25,000	- -	0.1 U	NA	0.1 U	NA	0.1 U
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.4 U	NA	0.4 U	NA	0.3 U
1,2-Dibromoethane	mg/kg	890	0.5	0.11	0.43	0.02	18,000	3.6	9.8	5.8	5.8	- -	0.03 UM	NA	0.03 UM	NA	0.03 UM
1,2-Dichlorobenzene	mg/kg	210	210	0.28	210	14	44,000,000	210	55,000	46,000	46,000	- -	0.1 U	NA	0.1 U	NA	0.1 U
1,2-Dichloroethane	mg/kg	1,200	380	7.2	420	0.1	150,000	11	74	33	21	- -	0.07 U	NA	0.07 U	NA	0.07 U
1,2-Dichloropropane	mg/kg	550	320	4.6	550	0.1	120,000	7.4	120	51	30	- -	0.07 U	NA	0.07 U	NA	0.07 U
1,3,5-Trimethylbenzene	mg/kg	94	94	1.1	94	1.8	36,000,000	94	460,000	460,000	19,000	- -	0.1 U	NA	0.1 U	NA	0.1 U
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170	0.48	88,000	48	110	94	94	- -	0.1 U	NA	0.1 U	NA	0.1 U
1,4-Dichlorobenzene	mg/kg	- -	140	0.36	1,900	1.7	570,000	100	340	260	260	- -	0.1 U	NA	0.1 U	NA	0.1 U
2-Butanone	mg/kg	27,000	27,000	44	27,000	760	29,000,000	27,000	36,000	35,000	35,000	- -	1.1 U	NA	1.1 U	NA	0.98 U
2-Hexanone	mg/kg	2,500	2,500	- -	2,500	58	1,200,000	1,800	1,500	1,300	1,300	- -	4 U	NA	4 U	NA	3 U
2-Methylnaphthalene	mg/kg	- -	5,500	4.2	26,000	170	290,000	4,900	1,800	1,800	1,800	- -	0.46 U	NA	0.49 U	NA	0.43 U
4-Methyl-2-pentanone	mg/kg	2,700	2,700	- -	2,700	100	60,000,000	2,700	70,000	53,000	53,000	- -	4 U	NA	4 U	NA	3 U
Acetone	mg/kg	110,000	110,000	34	73,000	42	170,000,000	110,000	200,000	160,000	160,000	- -	1 U	NA	1 U	NA	1 U
Acrylonitrile	mg/kg	8,300	280	0.1	74	0.22	58,000	35	31	17	17	- -	0.1 U	NA	0.1 U	NA	0.1 U
Benzene	mg/kg	400	220	4	400	0.1	470,000	8.4	230	99	45	- -	0.07 U	NA	0.07 U	NA	0.07 U
Bromobenzene	mg/kg	760	360	- -	760	1.5	240,000	580	540	540	540	- -	0.1 U	NA	0.1 U	NA	0.1 U
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	0.1 U
Bromodichloromethane	mg/kg	1,500	280	- -	490	1.6	110,000	6.4	57	31	31	- -	0.1 U	NA	0.1 U	NA	0.1 U
Bromoform	mg/kg	870	870	- -	870	1.6	3,600,000	770	3,100	3,100	3,100	- -	0.1 U	NA	0.1 U	NA	0.1 U
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	1.6	140	57	13	- -	0.3 U	NA	0.3 U	NA	0.3 U
Carbon Disulfide	mg/kg	280	280	- -	280	46	21,000,000	140	19,000	8,000	1,600	- -	0.4 U	NA	0.4 U	NA	0.3 U
Carbon Tetrachloride	mg/kg	390	92	0.9	390	0.1	170,000	0.99	79	34	12	- -	0.07 U	NA	0.07 U	NA	0.07 U
Chlorobenzene	mg/kg	260	260	0.5	260	2	2,100,000	220	2,100	1,100	920	- -	0.07 U	NA	0.07 U	NA	0.07 U
Chloroethane	mg/kg	950	950	22	950	34	290,000,000	950	280,000	120,000	36,000	- -	0.4 U	NA	0.4 U	NA	0.3 U
Chloroform	mg/kg	1,500	1,500	7	1,500	1.6	1,600,000	38	790	340	150	- -	0.07 U	NA	0.07 U	NA	0.07 U
Chloromethane	mg/kg	1,100	1,100	- -	1,100	22	2,600,000	10	2,500	1,000	120	- -	0.4 U	NA	0.4 U	NA	0.3 U
cis-1,2-Dichloroethene	mg/kg	640	640	12	640	1.4	1,000,000	41	1,000	430	210	- -	0.07 U	NA	0.07 U	NA	0.07 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.07 U	NA	0.07 U	NA	0.07 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	360	- -	500	1.6	160,000	21	98	80	80	- -	0.1 U	NA	0.1 U	NA	0.1 U
Dibromomethane	mg/kg	2,000	2,000	- -	2,000	4.6	- -	- -	- -	- -	- -	- -	0.4 U	NA	0.4 U	NA	0.3 U
Dichlorodifluoromethane	mg/kg	1,000	1,000	- -	1,000	270	1,500,000,000	1,700	1,400,000	550,000	63,000	- -	0.4 U	NA	0.4 U	NA	0.3 U
Diethyl ether	mg/kg	7,400	7,400	- -	7,400	0.2	350,000,000	7,400	350,000	160,000	100,000	- -	0.3 U	NA	0.3 U	NA	0.3 U
Ethylbenzene	mg/kg	140	140	0.36	140	1.5	13,000,000	140	6,500	3,100	2,400	- -	0.07 U	NA	0.07 U	NA	0.07 U
Hexachloroethane	mg/kg	- -	110	1.8	730	1.2	100,000	79	1,400	1,400	660	- -	0.4 U	NA	0.4 U	NA	0.4 U
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	0.1 U
Isopropylbenzene	mg/kg	390	390	3.2	390	260	2,600,000	390	3,000	2,000	2,000	- -	0.4 U	NA	0.4 U	NA	0.3 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	0.1 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	5,900	140	5,900	0.8	88,000,000	5,900	89,000	41,000	30,000	- -	0.3 U	NA	0.3 U	NA	0.3 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	2,300	30	2,300	0.1	8,300,000	240	4,000	1,700	700	- -	0.1 U	NA	0.1 U	NA	0.1 U

Table 2B
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-BG-08-2 0.6 - 2 10/12/12	RFI-BG-09 0 - 2 08/29/02	RFI-BG-09-2 0.5 - 1 10/11/12	RFI-BG-10 0 - 2 08/29/02	RFI-BG-10-2 0.6 - 1 10/11/12
Naphthalene	mg/kg	- -	2,100	0.73	52,000	100	88,000	470	350	350	350	- -	0.46 U	NA	0.49 U	NA	0.43 U
n-Butylbenzene	mg/kg	10,000	120	- -	8,000	4.6	880,000	- -	- -	- -	- -	- -	0.07 U	NA	0.07 U	NA	0.07 U
n-Propylbenzene	mg/kg	10,000	300	- -	8,000	4.6	590,000	- -	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	0.1 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.07 U	NA	0.07 U	NA	0.07 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	0.1 U
sec-Butylbenzene	mg/kg	10,000	88	- -	8,000	4.6	180,000	- -	- -	- -	- -	- -	0.07 U	NA	0.07 U	NA	0.07 U
Styrene	mg/kg	520	270	2.1	520	2.7	6,900,000	520	4,200	3,300	3,300	- -	0.07 U	NA	0.07 U	NA	0.07 U
tert-Butylbenzene	mg/kg	10,000	180	- -	8,000	4.6	290,000	- -	- -	- -	- -	- -	0.07 U	NA	0.07 U	NA	0.07 U
Tetrachloroethene	mg/kg	88	88	1.2	88	0.1	6,800,000	60	3,300	1,400	600	- -	0.07 U	NA	0.07 U	NA	0.07 U
Tetrahydrofuran	mg/kg	120,000	32,000	220	9,500	5.4	170,000,000	2,400	160,000	67,000	15,000	- -	1 U	NA	1 U	NA	1 U
Toluene	mg/kg	250	250	5.4	250	16	12,000,000	250	36,000	36,000	3,300	- -	0.1 U	NA	0.1 U	NA	0.1 U
trans-1,2-Dichloroethene	mg/kg	1,400	1,400	30	1,400	2	2,100,000	43	2,000	840	330	- -	0.07 U	NA	0.07 U	NA	0.07 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.07 U	NA	0.07 U	NA	0.07 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.07 U	NA	0.07 U	NA	0.07 U
Trichloroethene	mg/kg	500	440	4	500	0.1	2,300,000	37	1,100	440	260	- -	0.07 U	NA	0.07 U	NA	0.07 U
Trichlorofluoromethane	mg/kg	560	560	- -	560	150	1,700,000,000	560	140,000,000	140,000,000	110,000	- -	0.1 U	NA	0.1 U	NA	0.1 U
Atrazine	mg/kg	- -	110	0.15	330	0.06	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	- -	- -	- -	80	- -	- -	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
Benzo(a)pyrene	mg/kg	- -	- -	- -	8	- -	1,900	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
Benzo(b)fluoranthene	mg/kg	- -	- -	- -	80	- -	- -	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
Benzo(g,h,i)perylene	mg/kg	- -	- -	- -	7,000	- -	350,000	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
Benzo(k)fluoranthene	mg/kg	- -	- -	- -	800	- -	- -	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1	58	0.17	12,000	44	13	13	13	- -	0.33 U	NA	0.33 U	NA	0.33 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	- -	10,000	- -	890,000	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
Butylbenzylphthalate	mg/kg	310	310	120	310	310	21,000,000	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
Caprolactam	mg/kg	- -	1,000,000	- -	310,000	340	290,000	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Carbazole	mg/kg	- -	820	1.1	2,400	39	78,000	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Chrysene	mg/kg	- -	- -	- -	8,000	- -	- -	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
Dibenzo(a,h)anthracene	mg/kg	- -	- -	- -	8	- -	- -	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
Dibenzofuran	mg/kg	- -	- -	1.7	- -	- -	2,900	3,600	160	160	160	- -	0.33 U	NA	0.33 U	NA	0.33 U
Diethylphthalate	mg/kg	740	740	2.2	740	320	1,500,000	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
Dimethylphthalate	mg/kg	790	790	- -	790	790	1,500,000	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
Di-n-Butylphthalate	mg/kg	760	760	11	760	760	1,500,000	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
Di-n-Octylphthalate	mg/kg	140,000	140,000	- -	20,000	140,000	14,000,000	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
Fluoranthene	mg/kg	- -	730	5.5	130,000	730	4,100,000	1,000,000	880,000	880,000	890,000	- -	0.33 U	NA	0.33 U	NA	0.33 U
Fluorene	mg/kg	- -	890	5.3	87,000	890	4,100,000	1,000,000	150,000	150,000	150,000	- -	0.33 U	NA	0.33 U	NA	0.33 U
Hexachlorobenzene	mg/kg	- -	8.2	0.35	37	1.8	8,500	220	56	56	56	- -	0.33 U	NA	0.33 U	NA	0.33 U
Hexachlorobutadiene	mg/kg	350	350	0.091	350	72	180,000	350	460	460	460	- -	0.33 U	NA	0.33 U	NA	0.33 U
Hexachlorocyclopentadiene	mg/kg	720	720	- -	720	320	5,900	56	60	60	60	- -	0.33 U	NA	0.33 U	NA	0.33 U
Hexachloroethane	mg/kg	- -	110	1.8	730	1.2	100,000	79	1,400	1,400	660	- -	0.33 U	NA	0.33 U	NA	0.33 U
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	80	- -	- -	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
Isophorone	mg/kg	2,400	2,400	26	2,400	62	8,200,000	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
Methylphenols, Total	mg/kg	- -	16,000	1	36,000	20	2,900,000	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Naphthalene	mg/kg	- -	2,100	0.73	52,000	100	88,000	470	350	350	350	- -	0.33 U	NA	0.33 U	NA	0.33 U
Nitrobenzene	mg/kg	490	220	3.6	340	0.33	21,000	170	64	64	64	- -	0.33 U	NA	0.33 U	NA	0.33 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	- -	5.4	0.33	2,000	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
N-Nitrosodiphenylamine	mg/kg	- -	700	- -	7,800	22	2,800,000	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
Pentachlorophenol	mg/kg	- -	4.3	26.5	320	0.022	130,000	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
Phenanthrene	mg/kg	- -	1,100	2.1	5,200	160	2,900	5,100	190	190	190	- -	0.33 U	NA	0.33 U	NA	0.33 U
Phenol	mg/kg	12,000	12,000	9	12,000	260	18,000,000	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
Pyrene	mg/kg	- -	480	- -	84,000	480	2,900,000	1,000,000	780,000	780,000	780,000	- -	0.33 U	NA	0.33 U	NA	0.33 U
PCB																	

Table 2B
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	NSVIA	NVSIC2	NVSIC5	NVSICI	SDBL	RFI-BG-08-2 0.6 - 2 10/12/12	RFI-BG-09 0 - 2 08/29/02	RFI-BG-09-2 0.5 - 1 10/11/12	RFI-BG-10 0 - 2 08/29/02	RFI-BG-10-2 0.6 - 1 10/11/12
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.33 U	NA	0.33 U	NA	0.33 U
Total PCBs	mg/kg	- -	- -	- -	- -	- -	6,500	16,000	28,000	28,000	810	- -	NA	NA	NA	NA	NA
Inorganic																	
Antimony	mg/kg	- -	49,000	94	670	4.3	5,900	- -	- -	- -	- -	- -	0.5 U	0.013 J	0.5 U	0.042 J	0.5 U
Arsenic	mg/kg	- -	2,000	4.6	37	4.6	910	- -	- -	- -	- -	5.8	3.01	**6.5 J**	1.05	5.5 J	1.29
Barium	mg/kg	- -	1,000,000	858	130,000	1,300	150,000	- -	- -	- -	- -	75	35.1	60 J	89.6	150 J	23.1
Beryllium	mg/kg	- -	1,000,000	408	1,600	51	590	- -	- -	- -	- -	- -	0.32	0.47	0.64	0.89	0.2 U
Cadmium	mg/kg	- -	230,000	5.74	2,100	6	2,200	- -	- -	- -	- -	1.2	0.2 U	0.33 J	0.2 U	1.1	0.2 U
Chromium Total	mg/kg	- -	- -	4,960,000	- -	- -	- -	- -	- -	- -	- -	18	4.83	16 J	6.71	47 J	11.7
Cobalt	mg/kg	- -	48,000	2	9,000	2	5,900	- -	- -	- -	- -	6.8	**11.3**	6.4 J	**11.6**	3.8 J	**11.5**
Copper	mg/kg	- -	1,000,000	124	73,000	5,800	59,000	- -	- -	- -	- -	32	5.23	17 J	5.35	29 J	9
Cyanide (total)	mg/kg	- -	250	0.1	250	4	250	- -	- -	- -	- -	0.39	0.1 U	NA	0.1 U	NA	0.1 U
Lead	mg/kg	- -	- -	5,450	900	700	44,000	- -	- -	- -	- -	21	9.49	45 J	11.5	190 J	8.36
Manganese	mg/kg	- -	180,000	95.3	90,000	1	1,500	- -	- -	- -	- -	440	**481**	380	**537**	**2,100**	366
Mercury	mg/kg	- -	47	0.05	580	1.7	8,800	89	62	62	62	0.13	0.05 U	0.0761	0.05 U	0.0265 J	0.05 U
Nickel	mg/kg	- -	1,000,000	129	150,000	100	16,000	- -	- -	- -	- -	20	15.6	19 J	16.5	17 J	9.25
Selenium	mg/kg	- -	78,000	0.4	9,600	4	59,000	- -	- -	- -	- -	0.41	0.4 U	0.051 J	0.4 U	0.12 J	0.4 U
Silver	mg/kg	- -	200,000	0.1	9,000	13	2,900	- -	- -	- -	- -	1	0.1 U	0.086 J	0.1 U	0.26 J	0.1 U
Thallium	mg/kg	- -	15,000	4.2	130	2.3	5,900	- -	- -	- -	- -	- -	0.2 U	0.16 J	0.2 U	0.1 J	0.2 U
Vanadium	mg/kg	- -	1,000,000	190	5,500	990	- -	- -	- -	- -	- -	- -	NA	22 J	NA	14 J	NA
Zinc	mg/kg	- -	1,000,000	280	630,000	5,000	- -	- -	- -	- -	- -	47	12.3	87 J	18.1	**720 J**	14.9

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-36-02 1 - 3 09/17/01	RFI-36-02 7 - 9 09/17/01	RFI-36-02 9 - 11 09/17/01	RFI-36-02 13 - 15 09/17/01	RFI-38-01 0.5 - 2.5 07/23/01	RFI-38-01 8.5 - 10.5 07/23/01	RFI-38-01 18.5 - 20.5 07/23/01	RFI-38-03 1 - 3 07/18/01	RFI-38-03 5 - 7 07/18/01	RFI-38-03 9 - 11 07/18/01	RFI-38-03 17 - 19 07/18/01
VOC																			
1,1,1,2-Tetrachloroethane	mg/kg	440	440 {(C)}	{ID}	440 {(C)}	6.4	530,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	460 {(C)}	1.8	460 {(C)}	4	29,000,000	{NA}	<0.037	<0.044	<0.037 [<0.036]	<0.037	<0.038	<0.037	<0.039 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6 {(X)}	240	0.7	68,000	{NA}	<0.075	<0.087	<0.074 [<0.071]	<0.074	<0.076	<0.075	<0.079 [<0.079]	<0.072	<0.074 [<0.075]	<0.074	<0.077
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	550 {(C)}	1.7	550 {(C)}	550 {(C)}	2,300,000,000	{NA}	<0.16	<0.19	<0.16 [<0.15]	<0.16	<0.16	<0.16	<0.17 [<0.17]	<0.16	<0.16 [<0.16]	<0.16	<0.17
1,1,2-Trichloroethane	mg/kg	920	420	6.6 {(X)}	840	0.1	250,000	{NA}	<0.037	<0.044	<0.037 [<0.036]	<0.037	<0.038	<0.037	<0.039 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
1,1-Dichloroethane	mg/kg	890	890 {(C)}	15	890 {(C)}	50	15,000,000	{NA}	<0.037	<0.044	<0.037 [<0.036]	<0.037	<0.038	<0.037	<0.039 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
1,1-Dichloroethene	mg/kg	570	220	2.6	570 {(C)}	0.14	78,000	{NA}	<0.037	<0.044	<0.037 [<0.036]	<0.037	<0.038	<0.037	<0.039 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	830 {(C)}	{NA}	830 {(C)}	2.4	8,800	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	{NA}	<0.16	<0.19	<0.16 [<0.15]	<0.16	<0.16	<0.16	<0.17 [<0.17]	<0.16	<0.16 [<0.16]	<0.16	<0.17
1,2,4-Trimethylbenzene	mg/kg	110	110 {(C)}	0.57	110 {(C)}	2.1	36,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.16	<0.19	<0.16 [<0.15]	<0.16	<0.16	<0.16	<0.17 [<0.17]	<0.16	<0.16 J [<0.16]	<0.16	<0.17
1,2-Dibromoethane	mg/kg	890	0.5	0.11 {(X)}	0.43	0.02 {(M)}	18,000	{NA}	**<0.16**	**<0.19**	**<0.16 [<0.15]**	**<0.16**	**<0.16**	**<0.16**	**<0.17 [<0.17]**	**<0.16**	**<0.16 [<0.16]**	**<0.16**	**<0.17**
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	{NA}	<0.075	<0.087	<0.074 [<0.071]	<0.074	<0.076	<0.075	<0.079 [<0.079]	<0.072	<0.074 [<0.075]	<0.074	<0.077
1,2-Dichloroethane	mg/kg	1,200	380	7.2 {(X)}	420	0.1	150,000	{NA}	<0.037	<0.044	<0.037 [<0.036]	<0.037	<0.038	<0.037	<0.039 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
1,2-Dichloropropane	mg/kg	550	320	4.6 {(X)}	550 {(C)}	0.1	120,000	{NA}	<0.037	<0.044	<0.037 [<0.036]	<0.037	<0.038	<0.037	<0.039 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
1,3,5-Trimethylbenzene	mg/kg	94	94 {(C)}	1.1	94 {(C)}	1.8	36,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	{NA}	<0.075	<0.087	<0.074 [<0.071]	<0.074	<0.076	<0.075	<0.079 [<0.079]	<0.072	<0.074 [<0.075]	<0.074	<0.077
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	{NA}	<0.075	<0.087	<0.074 [<0.071]	<0.074	<0.076	<0.075	<0.079 [<0.079]	<0.072	<0.074 [<0.075]	<0.074	<0.077
2-Butanone	mg/kg	27,000	27,000 {(C)}	44	27,000 {(C,DD)}	760	29,000,000	{NA}	<0.27 J	<0.31 J	<0.26 J [<0.25 J]	<0.27 J	0.031 J	<0.27	<0.28 [<0.28]	<0.26	<0.26 [<0.27]	<0.26	<0.28
2-Hexanone	mg/kg	2,500	2,500 {(C)}	{ID}	2,500 {(C)}	58	1,200,000	{NA}	<0.27	<0.31	<0.26 [<0.25]	<0.27	<0.27	<0.27	<0.28 [<0.28]	<0.26	<0.26 [<0.27]	<0.26	<0.28
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	2,700 {(C)}	{ID}	2,700 {(C)}	100	60,000,000	{NA}	<0.27	<0.31	<0.26 [<0.25]	<0.27	<0.27	<0.27	<0.28 [<0.28]	<0.26	<0.26 [<0.27]	<0.26	<0.28
Acetone	mg/kg	110,000	110,000 {(C)}	34	73,000	42	170,000,000	{NA}	<0.27 J	<0.31 J	<0.26 J [<0.25 J]	<0.27 J	<0.36 J	<0.27 J	<0.38 J [<0.34 J]	<0.26	<0.26 [<0.27]	<0.26	<0.28
Acrylonitrile	mg/kg	8,300	280	0.1 {(M)}	74	0.22	58,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	220	4 {(X)}	400 {(C)}	0.1	470,000	{NA}	<0.037	<0.044	<0.037 [<0.036]	<0.037	<0.038	<0.037	<0.039 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
Bromobenzene	mg/kg	760	360	{NA}	760 {(C)}	1.5	240,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	280	{ID}	490	1.6 {(W)}	110,000	{NA}	<0.075	<0.087	<0.074 [<0.071]	<0.074	<0.076	<0.075	<0.079 [<0.079]	<0.072	<0.074 [<0.075]	<0.074	<0.077
Bromoform	mg/kg	870	870 {(C)}	{ID}	870 {(C)}	1.6 {(W)}	3,600,000	{NA}	<0.075	<0.087	<0.074 [<0.071]	<0.074	<0.076	<0.075	<0.079 [<0.079]	<0.072	<0.074 [<0.075]	<0.074	<0.077
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	{NA}	<0.16	<0.19	<0.16 [<0.15]	<0.16	<0.16	<0.16	<0.17 [<0.17]	<0.16	<0.16 [<0.16]	<0.16	<0.17
Carbon Disulfide	mg/kg	280	280 {(C)}	{ID}	280 {(C,DD)}	46	21,000,000	{NA}	<0.16	<0.19	<0.16 [<0.15]	<0.16	<0.16	<0.16	<0.17 [<0.17]	<0.16	<0.16 [<0.16]	<0.16	<0.17
Carbon Tetrachloride	mg/kg	390	92	0.9 {(X)}	390 {(C)}	0.1	170,000	{NA}	<0.037	<0.044	<0.037 [<0.036]	<0.037	<0.038	<0.037	<0.039 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
Chlorobenzene	mg/kg	260	260 {(C)}	0.5	260 {(C)}	2	2,100,000	{NA}	<0.037	<0.044	<0.037 [<0.036]	<0.037	<0.038	<0.037	<0.039 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
Chloroethane	mg/kg	950	950 {(C)}	22 {(X)}	950 {(C)}	34	290,000,000	{NA}	<0.16	<0.19	<0.16 [<0.15]	<0.16	<0.16	<0.16	<0.17 [<0.17]	<0.16	<0.16 [<0.16]	<0.16	<0.17
Chloroform	mg/kg	1,500	1,500 {(C)}	7	1,500 {(C)}	1.6 {(W)}	1,600,000	{NA}	<0.037	<0.044	<0.037 [<0.036]	<0.037	<0.038	<0.037	<0.039 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
Chloromethane	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	22	2,600,000	{NA}	<0.16	<0.19	<0.16 [<0.15]	<0.16	<0.16	<0.16	<0.17 [<0.17]	<0.16	<0.16 [<0.16]	<0.16	<0.17
cis-1,2-Dichloroethene	mg/kg	640	640 {(C)}	12	640 {(C)}	1.4	1,000,000	{NA}	<0.037	<0.044	<0.037 [<0.036]	<0.037	<0.038	<0.037	<0.039 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
cis-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	- -	<0.037	<0.044	<0.037 [<0.036]	<0.037	<0.038	<0.037	<0.039 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.16	<0.19	<0.16 [<0.15]	<0.16	<0.16	<0.16	<0.17 [<0.17]	<0.16	<0.16 [<0.16]	<0.16	<0.17
Dibromochloromethane	mg/kg	610	360	{ID}	500	1.6 {(W)}	160,000	{NA}	<0.075	<0.087	<0.074 [<0.071]	<0.074	<0.076	<0.075	<0.079 [<0.079]	<0.072	<0.074 [<0.075]	<0.074	<0.077
Dibromomethane	mg/kg	2,000	2,000 {(C)}	{NA}	2,000 {(C)}	4.6	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	1,000 {(C)}	{ID}	1,000 {(C)}	270	1,500,000,000	{NA}	<0.075	<0.087	<0.074 [<0.071]	<0.074	<0.076	<0.075	<0.079 [<0.079]	<0.072	<0.074 [<0.075]	<0.074	<0.077
Diethyl ether	mg/kg	7,400	7,400 {(C)}	{ID}	7,400 {(C)}	0.2	350,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	140 {(C)}	0.36	140 {(C)}	1.5	13,000,000	{NA}	<0.037	<0.044	<0.037 [<0.036]	<0.037	<0.038	<0.037	<0.039 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	390 {(C)}	3.2	390 {(C)}	260	2,600,000	{NA}	<0.16	<0.19	<0.16 [<0.15]	<0.16	<0.16	<0.16	<0.17 [<0.17]	<0.16	<0.16 [<0.16]	<0.16	<0.17
m&p-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	- -	<0.075	<0.087	<0.074 [<0.071]	<0.074	<0.076	<0.075	<0.079 [<0.079]	<0.072	<0.074 [<0.075]	<0.074	<0.077
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.16	<0.19	<0.16 [<0.15]	<0.16	<0.16	<0.16	<0.17 [<0.17]	<0.16	0.069 J [<0.16]	<0.16	<0.17
Methyl tert-butyl ether	mg/kg	5,900	5,900 {(C)}	140 {(X)}	5,900 {(C)}	0.8	88,000,000	{NA}	<0.27	<0.31	<0.26 [<0.25]	<0.27	<0.27	<0.27	<0.28 [<0.28]	<0.26	<0.26 [<0.27]	<0.26	<0.28
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.16	<0.19	<0.16 [<0.15]	<0.16	<0.16	<0.16	<0.17 [<0.17]	<0.16	<0.16 [<0.16]	<0.16	<0.17
Methylene Chloride	mg/kg	2,300	2,300 {(C)}	30 {(X)}	2,300 {(C)}	0.1	8,300,000	{NA}	0.033 J	0.036 J	0.034 J [0.042 J]	0.033 J	**<0.16**	**<0.16**	**<0.17 [<0.17]**	**<0.16**	**<0.16 [<0.16]**	0.094 J	0.05 J
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	120	{ID}	8,000	4.6	880,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	300	{ID}	8,000	4.6	590,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	- -	<0.037	<0.044	<0.037 [<0.036]	<0.037	<0.038	<0.037	<0.039 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	88	{ID}	8,000	4.6	180,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	270	2.1 {(X)}	520 {(C)}	2.7	6,900,000	{NA}	<0.037	<0.044	<0.037 [<0.036]	<0.037	<0.038	<0.037	<0.039 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
tert-Butylbenzene	mg/kg	10,000	180	{ID}	8,000	4.6	290,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-36-02 1 - 3 09/17/01	RFI-36-02 7 - 9 09/17/01	RFI-36-02 9 - 11 09/17/01	RFI-36-02 13 - 15 09/17/01	RFI-38-01 0.5 - 2.5 07/23/01	RFI-38-01 8.5 - 10.5 07/23/01	RFI-38-01 18.5 - 20.5 07/23/01	RFI-38-03 1 - 3 07/18/01	RFI-38-03 5 - 7 07/18/01	RFI-38-03 9 - 11 07/18/01	RFI-38-03 17 - 19 07/18/01
Tetrachloroethene	mg/kg	88	88 {(C)}	1.2 {(X)}	88 {(C)}	0.1	1,200,000	{NA}	<0.037	<0.044	<0.037 [<0.036]	<0.037	<0.038	<0.037	<0.039 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
Tetrahydrofuran	mg/kg	120,000	32,000	220 {(X)}	9,500	5.4	170,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	250 {(C)}	5.4	250 {(C)}	16	12,000,000	{NA}	<0.037	<0.044	<0.037 [<0.036]	<0.037	<0.038	<0.037	<0.039 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
trans-1,2-Dichloroethene	mg/kg	1,400	1,400 {(C)}	30 {(X)}	1,400 {(C)}	2	2,100,000	{NA}	<0.037	<0.044	<0.037 [<0.036]	<0.037	<0.038	<0.037	<0.039 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
trans-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	- -	<0.037	<0.044	<0.037 [<0.036]	<0.037	<0.038	<0.037	<0.039 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	440	4 {(X)}	500 {(C,DD)}	0.1	59,000	{NA}	<0.037	<0.044	<0.037 [<0.036]	<0.037	<0.038	<0.037	<0.039 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
Trichlorofluoromethane	mg/kg	560	560 {(C)}	{NA}	560 {(C)}	150	1,700,000,000	{NA}	<0.075	<0.087	<0.074 [<0.071]	<0.074	<0.076	<0.075	<0.079 [<0.079]	<0.072	<0.074 [<0.075]	<0.074	<0.077
Vinyl Chloride	mg/kg	490	20	0.26 {(X)}	34	0.04	890,000	{NA}	<0.037	**<0.044**	<0.037 [<0.036]	<0.037	<0.038	<0.037	<0.039 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
SVOC																			
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.19	<0.22	<0.18	<0.18	0.0469 J	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
2,4,5-Trichlorophenol	mg/kg	{NA}	9,100	{NA}	73,000	110	10,000,000	{NA}	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
2,4,6-Trichlorophenol	mg/kg	{NA}	200	0.33 {(M)}	3,300	9.4	1,300,000	{NA}	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
2,4-Dichlorophenol	mg/kg	1,800	960	0.33 {(M)}	1,800 {(C,DD)}	4.2	2,300,000	{NA}	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
2,4-Dimethylphenol	mg/kg	{NA}	10,000	7.6	36,000	20	2,100,000	{NA}	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.73 J	<0.85 J	<0.7 J	<0.72 J	<0.74	<0.71 J	<0.76 J [<0.77 J]	<0.7	<0.71 [<0.7]	<0.71	<0.74
2,4-Dinitrotoluene	mg/kg	{NA}	170	{NA}	220	0.64	20,000	{NA}	**<0.73**	**<0.85**	**<0.7**	**<0.72**	**<0.74**	**<0.71**	**<0.76 [<0.77]**	**<0.7**	**<0.71 [<0.7]**	**<0.71**	**<0.74**
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
2-Chloronaphthalene	mg/kg	{NA}	2,300	{NA}	180,000	1,800	{ID}	{NA}	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
2-Chlorophenol	mg/kg	19,000	1,900	0.36	4,500	2.6	530,000	{NA}	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	{NA}	<0.19	<0.22	<0.18	<0.18	0.251 J	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
2-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	- -	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18 J	<0.19 J [<0.2 J]	<0.18	<0.18 [<0.18]	<0.18	<0.19
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.73	<0.85	<0.7	<0.72	<0.74	<0.71	<0.76 [<0.77]	<0.7	<0.71 [<0.7]	<0.71	<0.74
2-Nitrophenol	mg/kg	{NA}	1,600	{ID}	2,000	1.2	{ID}	{NA}	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
3&4-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	- -	<0.37 J	<0.43 J	<0.36 J	<0.36 J	<0.37 J	<0.36 J	<0.39 J [<0.39 J]	<0.35 J	<0.36 J [<0.36 J]	<0.36 J	<0.38 J
3,3'-Dichlorobenzidine	mg/kg	{NA}	4.6	2 {(M)}	30	2 {(M)}	8,200	{NA}	<0.73 J	<0.85 J	<0.7 J	<0.72	<0.74	<0.71	<0.76 [<0.77]	<0.7	<0.71 [<0.7]	<0.71	<0.74
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.73	<0.85	<0.7	<0.72	<0.74	<0.71	<0.76 [<0.77]	<0.7	<0.71 [<0.7]	<0.71	<0.74
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.73	<0.85	<0.7	<0.72	<0.74	<0.71	<0.76 [<0.77]	<0.7	<0.71 [<0.7]	<0.71	<0.74
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
4-Chloro-3-Methylphenol	mg/kg	{NA}	3,000	0.28	15,000	16	{ID}	{NA}	<0.19	<0.22	R	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.73	<0.85	<0.7	<0.72	<0.74	<0.71	<0.76 [<0.77]	<0.7	<0.71 [<0.7]	<0.71	<0.74
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	R	R	<0.7	R	<0.74 J	<0.71 J	<0.76 J [<0.77 J]	<0.7 J	<0.71 J [<0.7 J]	<0.71 J	<0.74 J
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.73	<0.85	<0.7	<0.72	<0.74	<0.71 J	<0.76 J [<0.77 J]	<0.7	<0.71 [<0.7]	<0.71	<0.74
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.73	<0.85	<0.7	<0.72	<0.74	<0.71	<0.76 [<0.77]	<0.7	<0.71 [<0.7]	<0.71	<0.74
Acenaphthene	mg/kg	{NA}	970	8.7	130,000	880	6,200,000	{NA}	<0.19	<0.22	<0.18	<0.18	0.155 J	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
Acenaphthylene	mg/kg	{NA}	440	{ID}	5,200	17	1,000,000	{NA}	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
Acetophenone	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	88	14,000,000	{NA}	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
Anthracene	mg/kg	{NA}	41	{ID}	730,000	41	29,000,000	{NA}	<0.19	<0.22	<0.18	<0.18	0.198	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
Atrazine	mg/kg	{NA}	110	0.15	330 {(DD)}	0.06	{ID}	{NA}	**<0.19**	**<0.22**	**<0.18**	**<0.18**	**<0.19**	**<0.18**	**<0.19 [<0.2]**	**<0.18**	**<0.18 [<0.18]**	**<0.18**	**<0.19**
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.19 J	<0.22	<0.18	<0.18	<0.19 J	<0.18 J	<0.19 J [<0.2 J]	<0.18 J	<0.18 J [<0.18 J]	<0.18 J	<0.19 J
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	<0.19 J	<0.22 J	<0.18 J	<0.18	0.737	0.0459 J	<0.19 [<0.2]	<0.18	0.0759 J [<0.18]	<0.18	<0.19
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	1,900	{NA}	<0.19 J	<0.22 J	<0.18 J	<0.18	0.599	<0.18	<0.19 [<0.2]	<0.18	0.0931 J [<0.18]	<0.18	<0.19
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	<0.19 J	<0.22 J	<0.18 J	<0.18	0.591	<0.18	<0.19 [<0.2]	<0.18	0.079 J [<0.18]	<0.18	<0.19
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	{NLL}	7,000	{NLL}	350,000	{NA}	<0.19 J	<0.22 J	<0.18 J	<0.18	0.362 J	<0.18	<0.19 [<0.2]	<0.18	0.0495 J [<0.18]	<0.18	<0.19
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	800	{NLL}	{ID}	{NA}	<0.19 J	<0.22 J	<0.18 J	<0.18	0.608	<0.18	<0.19 [<0.2]	<0.18	0.0776 J [<0.18]	<0.18	<0.19
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1 {(M)}	58	0.17	12,000	{NA}	<0.036	<0.042	<0.035	<0.035	<0.036	<0.035	<0.038 [<0.038]	<0.034	<0.035 [<0.035]	<0.035	<0.036
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	{NLL}	10,000 {(C)}	{NLL}	890,000	{NA}	<0.19 J	<0.22 J	<0.18 J	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	0.0959 J
Butylbenzylphthalate	mg/kg	310	310 {(C)}	120 {(X)}	310 {(C)}	310 {(C)}	21,000,000	{NA}	0.0508 J	<0.22 J	<0.18 J	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	0.119 J	<0.19
Caprolactam	mg/kg	{NA}	1,000,000 {(D)}	{NA}	310,000 {(DD)}	340	290,000	{NA}	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18 J	<0.19 J [<0.2 J]	<0.18	<0.18 [<0.18]	<0.18	<0.19
Carbazole	mg/kg	{NA}	820	1.1	2,400	39	78,000	{NA}	<0.19	<0.22	<0.18	<0.18	0.0564 J	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
Chrysene	mg/kg	{NA}	{NLL}	{NLL}	8,000	{NLL}	{ID}	{NA}	<0.19 J	<0.22 J	<0.18 J	<0.18	0.81	0.0505 J	<0.19 [<0.2]	<0.18	0.0825 J [<0.18]	<0.18	<0.19
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	{ID}	{NA}	<0.19 J	<0.22 J	<0.18 J	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
Dibenzofuran	mg/kg	{NA}	{ID}	1.7	{ID}	{ID}	2,900	{NA}	<0.19	<0.22	<0.18	<0.18	0.175 J	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
Diethylphthalate	mg/kg	740	740 {(C)}	2.2	740 {(C)}	320	1,500,000	{NA}	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [0.0661 J]	0.126 J	0.15 J
Dimethylphthalate	mg/kg	790	790 {(C)}	{NA}	790 {(C)}	790 {(C)}	1,500,000	{NA}	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-36-02 1 - 3 09/17/01	RFI-36-02 7 - 9 09/17/01	RFI-36-02 9 - 11 09/17/01	RFI-36-02 13 - 15 09/17/01	RFI-38-01 0.5 - 2.5 07/23/01	RFI-38-01 8.5 - 10.5 07/23/01	RFI-38-01 18.5 - 20.5 07/23/01	RFI-38-03 1 - 3 07/18/01	RFI-38-03 5 - 7 07/18/01	RFI-38-03 9 - 11 07/18/01	RFI-38-03 17 - 19 07/18/01
Di-n-Butylphthalate	mg/kg	760	760 {(C)}	11	760 {(C)}	760 {(C)}	1,500,000	{NA}	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [0.0486 J]	<0.18	<0.19
Di-n-Octylphthalate	mg/kg	140,000	140,000 {(C)}	{ID}	20,000	140,000 {(C)}	14,000,000	{NA}	<0.19 J	<0.22 J	<0.18 J	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
Fluoranthene	mg/kg	{NA}	730	5.5	130,000	730	4,100,000	{NA}	<0.19	<0.22	<0.18	<0.18	1.33	0.0978 J	<0.19 [<0.2]	<0.18	0.0984 J [<0.18]	0.0444 J	<0.19
Fluorene	mg/kg	{NA}	890	5.3	87,000	890	4,100,000	{NA}	<0.19	<0.22	<0.18	<0.18	0.092 J	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
Hexachlorobenzene	mg/kg	{NA}	8.2	0.35	37	1.8	8,500	{NA}	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
Hexachlorobutadiene	mg/kg	350	350 {(C)}	0.091	350 {(C)}	72	180,000	{NA}	**<0.19**	**<0.22**	**<0.18**	**<0.18**	**<0.19**	**<0.18**	**<0.19 [<0.2]**	**<0.18**	**<0.18 [<0.18]**	**<0.18**	**<0.19**
Hexachlorocyclopentadiene	mg/kg	720	720 {(C)}	{ID}	720 {(C)}	320	5,900	{NA}	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	{NA}	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	<0.19 J	<0.22 J	<0.18 J	<0.18	0.343	<0.18	<0.19 [<0.2]	<0.18	0.0492 J [<0.18]	<0.18	<0.19
Isophorone	mg/kg	2,400	2,400 {(C)}	26 {(X)}	2,400 {(C)}	62	8,200,000	{NA}	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
Methylphenols, Total	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NA}	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	{NA}	<0.19	<0.22	<0.18	<0.18	0.201	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
Nitrobenzene	mg/kg	490	220	3.6 {(X)}	340	0.33 {(M)}	21,000	{NA}	<0.073	<0.085	<0.07	<0.072	<0.074	<0.071	<0.076 [<0.077]	<0.07	<0.071 [<0.07]	<0.071	<0.074
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	{NA}	5.4	0.33 {(M)}	2,000	{NA}	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
N-Nitrosodiphenylamine	mg/kg	{NA}	700	{NA}	7,800	22	2,800,000	{NA}	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
Pentachlorophenol	mg/kg	{NA}	4.3	26.5 {(G,X)}	320	0.022	130,000	{NA}	**<0.73**	**<0.85**	**<0.7**	**<0.72**	**<0.74**	**<0.71**	**<0.76 [<0.77]**	**<0.7**	**<0.71 [<0.7]**	**<0.71**	**<0.74**
Phenanthrene	mg/kg	{NA}	1,100	2.1	5,200	160	2,900	{NA}	<0.19	<0.22	<0.18	<0.18	1.13	0.129 J	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	0.0373 J	<0.19
Phenol	mg/kg	12,000	12,000 {(C)}	9	12,000 {(C,DD)}	260	18,000,000	{NA}	<0.19	<0.22	<0.18	<0.18	<0.19	<0.18	<0.19 [<0.2]	<0.18	<0.18 [<0.18]	<0.18	<0.19
Pyrene	mg/kg	{NA}	480	{ID}	84,000	480	2,900,000	{NA}	<0.19 J	<0.22 J	<0.18 J	<0.18	1.15	0.0823 J	<0.19 [<0.2]	<0.18	0.124 J [<0.18]	<0.18	<0.19
PCB																			
Aroclor-1016	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	<0.038	<0.044	<0.037	<0.037	<0.039	<0.037	<0.04 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
Aroclor-1221	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	<0.038	<0.044	<0.037	<0.037	<0.039	<0.037	<0.04 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
Aroclor-1232	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	<0.038	<0.044	<0.037	<0.037	<0.039	<0.037	<0.04 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
Aroclor-1242	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	<0.038	<0.044	<0.037	<0.037	<0.039	<0.037	<0.04 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
Aroclor-1248	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	<0.038	<0.044	<0.037	<0.037	<0.039	<0.037	<0.04 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
Aroclor-1254	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	<0.038	<0.044	<0.037	<0.037	<0.039	<0.037	<0.04 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
Aroclor-1260	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	<0.038	<0.044	<0.037	<0.037	<0.039	<0.037	<0.04 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
Total PCBs	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	{NA}	<0.038	<0.044	<0.037	<0.037	<0.039	<0.037	<0.04 [<0.04]	<0.036	<0.037 [<0.037]	<0.037	<0.039
TPH																			
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																			
Antimony	mg/kg	{NA}	49,000	94 {(X)}	670	4.3	5,900	{NA}	0.71 J	0.18 J	0.11 J	0.11 J	<0.28 J	<0.19 J	<0.22 J [<0.2 J]	R	R [R]	R	R
Arsenic	mg/kg	{NA}	2,000	4.6	37	4.6	910	5.8	3.6 J	4.2 J	3.1 J	4 J	**6.4**	3.3	1.9 [2.1]	3.6	4.1 [3.6]	**4.7**	2.4
Barium	mg/kg	{NA}	1,000,000	858 {(G)}	130,000	1,300	150,000	75	12 J	16 J	8.5 J	7.6 J	38 J	8.6 J	4.4 J [4.7 J]	15	16 [17]	27	8.3
Beryllium	mg/kg	{NA}	1,000,000	408 {(G)}	1,600	51	590	{NA}	0.091 J	0.12 J	0.058 J	0.061 J	0.66	0.15	0.062 J [0.082]	0.13	0.15 [0.14]	0.26	0.12
Cadmium	mg/kg	{NA}	230,000	5.74 {(G,X)}	2,100	6	2,200	1.2	0.073 J	0.1 J	0.065 J	0.1 J	0.76	0.069	0.093 [0.085]	0.096	0.12 [0.097]	0.11	0.12
Chromium Total	mg/kg	{NA}	1,000,000 {(D)}	4,960,000	1,000,000 {(D)}	1,000,000 {(D)}	150,000	18	5 J	7.6 J	4.5 J	4.2 J	**28 J**	5.8 J	3.3 J [3 J]	5.3	6.2 [5.8]	12	4.7
Cobalt	mg/kg	{NA}	48,000	2	9,000	2	5,900	6.8	**2.5 J**	**3.1 J**	**2.4 J**	**2.3 J**	**4.9**	**2.6**	1.6 [1.7]	**2.5**	**2.6 [2.5]**	**3.6**	1.4
Copper	mg/kg	{NA}	1,000,000	124 {(G)}	73,000	5,800	59,000	32	6.5 J	7.9 J	5.6 J	5.8 J	19 J	5.6 J	3 J [3.3 J]	5.8	7.3 [6.8]	11	5
Cyanide (total)	mg/kg	{NA}	250	0.1	250	4	250	0.39 {(total)}	**<0.2 J**	**<0.2 J**	**<0.2 J**	**<0.2 J**	R	R	R [R]	**<0.2**	0.026 J [0.01 J]	0.041 J	0.033 J
Lead	mg/kg	{NA}	- -	5,450 {(G,X)}	900	700	44,000	21	5 J	6.3 J	4.1 J	5.1 J	20 J	5 J	3.1 J [3.1 J]	4.4	6.7 [6.3]	9.8	3.8
Manganese	mg/kg	{NA}	180,000	95.3 {(G,X)}	90,000	1	1,500	440	**120 J**	**180 J**	**110 J**	**120 J**	**620 J**	**110 J**	**99 J [100 J]**	**120 J**	**170 J [120 J]**	**200 J**	**65 J**
Mercury	mg/kg	{NA}	47	0.05 {(M)}	580	1.7	8,800	0.13	**<0.075**	**<0.083**	**<0.073**	**<0.073**	**0.0543 J**	**<0.074**	**<0.08 [<0.079]**	0.0233 J	0.0267 J [0.0274 J]	0.0287 J	**<0.077**
Nickel	mg/kg	{NA}	1,000,000	129 {(G)}	150,000	100	16,000	20	6.8 J	8.4 J	5.8 J	5.6 J	15	5.7	5 [5.1]	6.1	6.9 [6.2]	10	5.1
Selenium	mg/kg	{NA}	78,000	0.4	9,600	4	59,000	0.41	0.15 J	0.15 J	0.064 J	0.061 J	**<0.54**	<0.076	<0.15 [<0.08]	0.33 J	0.34 [0.21]	0.39 J	0.38
Silver	mg/kg	{NA}	200,000	0.1 {(M)}	9,000	13	2,900	1	**0.11 J**	**0.14 J**	0.051 J	0.048 J	0.086 J	0.025 J	0.024 J [0.051 J]	0.062 J	0.028 J [0.036 J]	0.046 J	0.02 J
Thallium	mg/kg	{NA}	15,000	4.2 {(X)}	130	2.3	5,900	{NA}	0.07 J	0.075 J	0.045 J	0.058 J	0.21 J	0.042 J	0.063 J [0.054 J]	0.055 J	0.066 J [0.052 J]	0.1 J	0.044 J
Vanadium	mg/kg	{NA}	1,000,000	430	5,500	990	- -	{NA}	8.6 J	10 J	7.8 J	7.2 J	23	9.8	5.2 [5.2]	11	11 [9.3]	14	9
Zinc	mg/kg	{NA}	1,000,000	280 {(G)}	630,000	5,000	- -	47	23 J	28 J	21 J	23 J	**55 J**	19 J	16 J [16 J]	23	27 [25]	31	22
Miscellaneous																			
Percent Moisture	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	- -	- -	- -	- -	- -	- -	- -	91.8	79	95.3	93.4	90.9	94.3	87.8 [86.9]	96.2	94.8 [95.2]	93.8	90.6

Notes:
Bold and highlighted cells indicate an exceedance of SDBL and one or more criteria.

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-38-04 0.2 - 2.2 08/21/01	RFI-38-04 8.2 - 10.2 08/21/01	RFI-38-04 16.2 - 18.2 08/21/01	RFI-38-05 0.6 - 2.6 08/24/01	RFI-38-05 8.6 - 10.6 08/24/01	RFI-38-05 14.6 - 16.6 08/24/01	RFI-38-07 0.8 - 2 10/11/12	RFI-38-07 5 - 7 10/11/12	RFI-38-08 0.7 - 2 10/11/12	RFI-38-08 3 - 4 10/11/12	RFI-38-09 0.4 - 1.1 10/11/12	RFI-38-10 0.9 - 2 10/12/12
VOC																				
1,1,1,2-Tetrachloroethane	mg/kg	440	440 {(C)}	{ID}	440 {(C)}	6.4	530,000	{NA}	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]
1,1,1-Trichloroethane	mg/kg	460	460 {(C)}	1.8	460 {(C)}	4	29,000,000	{NA}	<0.038	<0.038	<0.037	<0.038	<0.04 [<0.04]	<0.04	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6 {(X)}	240	0.7	68,000	{NA}	<0.077	<0.076	<0.074	<0.076	<0.079 [<0.08]	<0.079	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	550 {(C)}	1.7	550 {(C)}	550 {(C)}	2,300,000,000	{NA}	<0.16	<0.16	<0.16	<0.16	<0.17 [<0.17]	<0.17	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	420	6.6 {(X)}	840	0.1	250,000	{NA}	<0.038	<0.038	<0.037	<0.038	<0.04 [<0.04]	<0.04	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]
1,1-Dichloroethane	mg/kg	890	890 {(C)}	15	890 {(C)}	50	15,000,000	{NA}	<0.038	<0.038	<0.037	<0.038	<0.04 [<0.04]	<0.04	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]
1,1-Dichloroethene	mg/kg	570	220	2.6	570 {(C)}	0.14	78,000	{NA}	<0.038	<0.038	<0.037	<0.038	<0.04 [<0.04]	<0.04	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	<0.42	<0.4	<0.46	<0.4	<0.46	<0.48 [<0.39]
1,2,3-Trichloropropane	mg/kg	830	830 {(C)}	{NA}	830 {(C)}	2.4	8,800	{NA}	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	{NA}	<0.16	<0.16	0.031 J	<0.16	<0.17 [<0.17]	<0.17	<0.42	<0.4	<0.46	<0.4	<0.46	<0.48 [<0.39]
1,2,4-Trimethylbenzene	mg/kg	110	110 {(C)}	0.57	110 {(C)}	2.1	36,000,000	{NA}	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.16	<0.16	<0.16	<0.16	<0.17 [<0.17]	<0.17	<0.3	<0.3	<0.4	<0.3	<0.4	<0.4 [<0.3]
1,2-Dibromoethane	mg/kg	890	0.5	0.11 {(X)}	0.43	0.02 {(M)}	18,000	{NA}	**<0.16**	**<0.16**	**<0.16**	**<0.16**	**<0.17 [<0.17]**	**<0.17**	**<0.03 M**	<0.02 M	**<0.03 M**	<0.02 M	**<0.03 M**	**<0.03 M [<0.02 M]**
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	{NA}	<0.077	<0.076	<0.074	<0.076	<0.079 [<0.08]	<0.079	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]
1,2-Dichloroethane	mg/kg	1,200	380	7.2 {(X)}	420	0.1	150,000	{NA}	<0.038	<0.038	<0.037	<0.038	<0.04 [<0.04]	<0.04	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]
1,2-Dichloropropane	mg/kg	550	320	4.6 {(X)}	550 {(C)}	0.1	120,000	{NA}	<0.038	<0.038	<0.037	<0.038	<0.04 [<0.04]	<0.04	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]
1,3,5-Trimethylbenzene	mg/kg	94	94 {(C)}	1.1	94 {(C)}	1.8	36,000,000	{NA}	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	{NA}	<0.077	<0.076	<0.074	<0.076	<0.079 [<0.08]	<0.079	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	{NA}	<0.077	<0.076	<0.074	<0.076	<0.079 [<0.08]	<0.079	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]
2-Butanone	mg/kg	27,000	27,000 {(C)}	44	27,000 {(C,DD)}	760	29,000,000	{NA}	<0.27 J	<0.27 J	<0.26 J	<0.27	<0.28 [<0.28]	<0.28	<0.95	<0.9	<1.1	<0.9	<1.1	<1.1 [<0.89]
2-Hexanone	mg/kg	2,500	2,500 {(C)}	{ID}	2,500 {(C)}	58	1,200,000	{NA}	<0.27	<0.27	<0.26	<0.27	<0.28 [<0.28]	<0.28	<3	<3	<4	<3	<4	<4 [<3]
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	{NA}	NA	NA	NA	NA	NA	NA	<0.42	<0.4	<0.46	<0.4	<0.46	<0.48 [<0.39]
4-Methyl-2-pentanone	mg/kg	2,700	2,700 {(C)}	{ID}	2,700 {(C)}	100	60,000,000	{NA}	<0.27	<0.27	<0.26	<0.27	<0.28 [<0.28]	<0.28	<3	<3	<4	<3	<4	<4 [<3]
Acetone	mg/kg	110,000	110,000 {(C)}	34	73,000	42	170,000,000	{NA}	<0.27 J	<0.27 J	<0.26 J	<0.27 J	<0.28 J [<0.28 J]	<0.28 J	<1	<1	<1	<1	<1	<1 [<1]
Acrylonitrile	mg/kg	8,300	280	0.1 {(M)}	74	0.22	58,000	{NA}	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]
Benzene	mg/kg	400	220	4 {(X)}	400 {(C)}	0.1	470,000	{NA}	<0.038	<0.038	<0.037	<0.038	<0.04 [<0.04]	<0.04	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]
Bromobenzene	mg/kg	760	360	{NA}	760 {(C)}	1.5	240,000	{NA}	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]
Bromodichloromethane	mg/kg	1,500	280	{ID}	490	1.6 {(W)}	110,000	{NA}	<0.077	<0.076	<0.074	<0.076	<0.079 [<0.08]	<0.079	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]
Bromoform	mg/kg	870	870 {(C)}	{ID}	870 {(C)}	1.6 {(W)}	3,600,000	{NA}	<0.077	<0.076	<0.074	<0.076	<0.079 [<0.08]	<0.079	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	{NA}	<0.16 J	<0.16 J	<0.16 J	<0.16	<0.17 [<0.17]	<0.17	<0.3	<0.2	<0.3	<0.2	<0.3	<0.3 [<0.2]
Carbon Disulfide	mg/kg	280	280 {(C)}	{ID}	280 {(C,DD)}	46	21,000,000	{NA}	<0.16	<0.16	<0.16	<0.16	<0.17 [<0.17]	<0.17	<0.3	<0.3	<0.4	<0.3	<0.4	<0.4 [<0.3]
Carbon Tetrachloride	mg/kg	390	92	0.9 {(X)}	390 {(C)}	0.1	170,000	{NA}	<0.038	<0.038	<0.037	<0.038	<0.04 [<0.04]	<0.04	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]
Chlorobenzene	mg/kg	260	260 {(C)}	0.5	260 {(C)}	2	2,100,000	{NA}	<0.038	<0.038	<0.037	<0.038	<0.04 [<0.04]	<0.04	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]
Chloroethane	mg/kg	950	950 {(C)}	22 {(X)}	950 {(C)}	34	290,000,000	{NA}	<0.16	<0.16	<0.16	<0.16	<0.17 [<0.17 J]	<0.17 J	<0.3	<0.3	<0.4	<0.3	<0.4	<0.4 [<0.3]
Chloroform	mg/kg	1,500	1,500 {(C)}	7	1,500 {(C)}	1.6 {(W)}	1,600,000	{NA}	<0.038	<0.038	<0.037	<0.038	<0.04 [<0.04]	<0.04	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]
Chloromethane	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	22	2,600,000	{NA}	<0.16 J	<0.16 J	<0.16 J	<0.16 J	<0.17 J [<0.17]	0.031 J	<0.3	<0.3	<0.4	<0.3	<0.4	<0.4 [<0.3]
cis-1,2-Dichloroethene	mg/kg	640	640 {(C)}	12	640 {(C)}	1.4	1,000,000	{NA}	<0.038	<0.038	<0.037	<0.038	<0.04 [<0.04]	<0.04	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]
cis-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	- -	<0.038	<0.038	<0.037	<0.038	<0.04 [<0.04]	<0.04	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.16	<0.16	<0.16	<0.16	<0.17 [<0.17 J]	<0.17 J	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	360	{ID}	500	1.6 {(W)}	160,000	{NA}	<0.077	<0.076	<0.074	<0.076	<0.079 [<0.08]	<0.079	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]
Dibromomethane	mg/kg	2,000	2,000 {(C)}	{NA}	2,000 {(C)}	4.6	{ID}	{NA}	NA	NA	NA	NA	NA	NA	<0.3	<0.3	<0.4	<0.3	<0.4	<0.4 [<0.3]
Dichlorodifluoromethane	mg/kg	1,000	1,000 {(C)}	{ID}	1,000 {(C)}	270	1,500,000,000	{NA}	<0.077	<0.076	<0.074	<0.076	<0.079 [<0.08]	<0.079	<0.3	<0.3	<0.4	<0.3	<0.4	<0.4 [<0.3]
Diethyl ether	mg/kg	7,400	7,400 {(C)}	{ID}	7,400 {(C)}	0.2	350,000,000	{NA}	NA	NA	NA	NA	NA	NA	**<0.3**	<0.2	**<0.3**	<0.2	**<0.3**	**<0.3 [<0.2]**
Ethylbenzene	mg/kg	140	140 {(C)}	0.36	140 {(C)}	1.5	13,000,000	{NA}	<0.038	<0.038	<0.037	0.18	<0.04 [<0.04]	<0.04	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	{NA}	NA	NA	NA	NA	NA	NA	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4 [<0.4]
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]
Isopropylbenzene	mg/kg	390	390 {(C)}	3.2	390 {(C)}	260	2,600,000	{NA}	<0.16	<0.16	<0.16	0.035 J	<0.17 [<0.17]	<0.17	<0.3	<0.3	<0.4	<0.3	<0.4	<0.4 [<0.3]
m&p-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	- -	<0.077	<0.076	<0.074	0.12	<0.079 [<0.08]	<0.079	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.16	<0.16	<0.16	<0.16	<0.17 [<0.17]	<0.17	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	5,900 {(C)}	140 {(X)}	5,900 {(C)}	0.8	88,000,000	{NA}	<0.27	<0.27	<0.26	<0.27	<0.28 [<0.28]	<0.28	<0.3	<0.2	<0.3	<0.2	<0.3	<0.3 [<0.2]
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.029 J	<0.16	<0.16	<0.16	<0.17 [<0.17]	<0.17	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	2,300 {(C)}	30 {(X)}	2,300 {(C)}	0.1	8,300,000	{NA}	**<0.16**	**<0.16**	**<0.16**	**<0.16**	**<0.17 [<0.17]**	**<0.17**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	{NA}	NA	NA	NA	NA	NA	NA	<0.42	<0.4	<0.46	<0.4	<0.46	<0.48 [<0.39]
n-Butylbenzene	mg/kg	10,000	120	{ID}	8,000	4.6	880,000	{NA}	NA	NA	NA	NA	NA	NA	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]
n-Propylbenzene	mg/kg	10,000	300	{ID}	8,000	4.6	590,000	{NA}	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]
o-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	- -	<0.038	<0.038	<0.037	<0.038	<0.04 [<0.04]	<0.04	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]
sec-Butylbenzene	mg/kg	10,000	88	{ID}	8,000	4.6	180,000	{NA}	NA	NA	NA	NA	NA	NA	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]
Styrene	mg/kg	520	270	2.1 {(X)}	520 {(C)}	2.7	6,900,000	{NA}	<0.038	<0.038	<0.037	<0.038	<0.04 [<0.04]	<0.04	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]
tert-Butylbenzene	mg/kg	10,000	180	{ID}	8,000	4.6	290,000	{NA}	NA	NA	NA	NA	NA	NA	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-38-04 0.2 - 2.2 08/21/01	RFI-38-04 8.2 - 10.2 08/21/01	RFI-38-04 16.2 - 18.2 08/21/01	RFI-38-05 0.6 - 2.6 08/24/01	RFI-38-05 8.6 - 10.6 08/24/01	RFI-38-05 14.6 - 16.6 08/24/01	RFI-38-07 0.8 - 2 10/11/12	RFI-38-07 5 - 7 10/11/12	RFI-38-08 0.7 - 2 10/11/12	RFI-38-08 3 - 4 10/11/12	RFI-38-09 0.4 - 1.1 10/11/12	RFI-38-10 0.9 - 2 10/12/12
Tetrachloroethene	mg/kg	88	88 {(C)}	1.2 {(X)}	88 {(C)}	0.1	1,200,000	{NA}	<0.038	<0.038	<0.037	<0.038	<0.04 [<0.04]	<0.04	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]
Tetrahydrofuran	mg/kg	120,000	32,000	220 {(X)}	9,500	5.4	170,000,000	{NA}	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1 [<1]
Toluene	mg/kg	250	250 {(C)}	5.4	250 {(C)}	16	12,000,000	{NA}	<0.038	<0.038	<0.037	0.031 J	<0.04 [<0.04]	<0.04	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]
trans-1,2-Dichloroethene	mg/kg	1,400	1,400 {(C)}	30 {(X)}	1,400 {(C)}	2	2,100,000	{NA}	<0.038	<0.038	<0.037	<0.038	<0.04 [<0.04]	<0.04	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]
trans-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	- -	<0.038	<0.038	<0.037	<0.038	<0.04 [<0.04]	<0.04	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]
Trichloroethene	mg/kg	500	440	4 {(X)}	500 {(C,DD)}	0.1	59,000	{NA}	<0.038	<0.038	<0.037	<0.038	<0.04 [<0.04]	<0.04	<0.06	<0.06	<0.07	<0.06	<0.07	<0.07 [<0.06]
Trichlorofluoromethane	mg/kg	560	560 {(C)}	{NA}	560 {(C)}	150	1,700,000,000	{NA}	<0.077	<0.076	<0.074	<0.076	<0.079 [<0.08]	<0.079	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]
Vinyl Chloride	mg/kg	490	20	0.26 {(X)}	34	0.04	890,000	{NA}	<0.038	<0.038	<0.037	<0.038	<0.04 [<0.04]	<0.04	**<0.06**	**<0.06**	**<0.07**	**<0.06**	**<0.07**	**<0.07 [<0.06]**
SVOC																				
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	{NA}	NA	NA	NA	NA	NA	NA	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	{NA}	NA	NA	NA	NA	NA	NA	**<0.33**	**<0.33**	**<0.33**	**<0.33**	**<0.33**	**<0.33 [<0.33]**
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	{NA}	NA	NA	NA	NA	NA	NA	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	{NA}	NA	NA	NA	NA	NA	NA	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
2,4,5-Trichlorophenol	mg/kg	{NA}	9,100	{NA}	73,000	110	10,000,000	{NA}	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
2,4,6-Trichlorophenol	mg/kg	{NA}	200	0.33 {(M)}	3,300	9.4	1,300,000	{NA}	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
2,4-Dichlorophenol	mg/kg	1,800	960	0.33 {(M)}	1,800 {(C,DD)}	4.2	2,300,000	{NA}	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
2,4-Dimethylphenol	mg/kg	{NA}	10,000	7.6	36,000	20	2,100,000	{NA}	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.74	<0.71	<0.7	<0.72 J	<0.75 [<0.75]	<0.76	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83 [<0.83]
2,4-Dinitrotoluene	mg/kg	{NA}	170	{NA}	220	0.64	20,000	{NA}	**<0.74**	**<0.71**	**<0.7**	**<0.72**	**<0.75 [<0.75]**	**<0.76**	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
2-Chloronaphthalene	mg/kg	{NA}	2,300	{NA}	180,000	1,800	{ID}	{NA}	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
2-Chlorophenol	mg/kg	19,000	1,900	0.36	4,500	2.6	530,000	{NA}	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	{NA}	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
2-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	- -	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.74	<0.71	<0.7	<0.72	<0.75 [<0.75]	<0.76	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83 [<0.83]
2-Nitrophenol	mg/kg	{NA}	1,600	{ID}	2,000	1.2	{ID}	{NA}	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
3&4-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	- -	<0.38 J	<0.36 J	<0.35 J	<0.36	<0.38 [<0.38]	<0.39	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
3,3'-Dichlorobenzidine	mg/kg	{NA}	4.6	2 {(M)}	30	2 {(M)}	8,200	{NA}	<0.74	<0.71	<0.7	<0.72	<0.75 [<0.75]	<0.76	<2	<2	<2	<2	<2	<2 [<2]
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.74	<0.71	<0.7	<0.72	<0.75 [<0.75]	<0.76	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83 [<0.83]
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.74	<0.71	<0.7	<0.72	<0.75 [<0.75]	<0.76	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83 [<0.83]
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
4-Chloro-3-Methylphenol	mg/kg	{NA}	3,000	0.28	15,000	16	{ID}	{NA}	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28 [<0.28]
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.74	<0.71	<0.7	<0.72	<0.75 [<0.75]	<0.76	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.74	<0.71	<0.7	<0.72	<0.75 [<0.75]	<0.76	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.74	<0.71	<0.7	<0.72	<0.75 [<0.75]	<0.76	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83 [<0.83]
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.74	<0.71	<0.7	<0.72	<0.75 [<0.75]	<0.76	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83 [<0.83]
Acenaphthene	mg/kg	{NA}	970	8.7	130,000	880	6,200,000	{NA}	<0.19	<0.18	<0.18	0.055 J	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Acenaphthylene	mg/kg	{NA}	440	{ID}	5,200	17	1,000,000	{NA}	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Acetophenone	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	88	14,000,000	{NA}	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	41	{ID}	730,000	41	29,000,000	{NA}	0.108 J	<0.18	<0.18	0.218	0.0457 J [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Atrazine	mg/kg	{NA}	110	0.15	330 {(DD)}	0.06	{ID}	{NA}	**<0.19**	**<0.18 J**	**<0.18 J**	**<0.18**	**<0.19 [<0.19]**	**<0.19**	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.19	<0.18 J	<0.18 J	<0.18	<0.19 [<0.19]	<0.19	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	0.598	<0.18	<0.18	0.439	0.0538 J [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	1,900	{NA}	0.745 J	<0.18	<0.18	0.305	0.0505 J [<0.19]	<0.19 J	<0.33	<0.33	<0.33	0.389	<0.33	<0.33 [<0.33]
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	0.869 J	<0.18	<0.18	0.585	0.0449 J [<0.19 J]	<0.19 J	<0.33	<0.33	<0.33	0.344	<0.33	<0.33 [<0.33]
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	{NLL}	7,000	{NLL}	350,000	{NA}	0.513 J	<0.18	<0.18	<0.18	<0.19 J [<0.19 J]	<0.19 J	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	800	{NLL}	{ID}	{NA}	0.843 J	<0.18	<0.18	0.331	0.0557 J [<0.19 J]	<0.19 J	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1 {(M)}	58	0.17	12,000	{NA}	<0.037	<0.035	<0.034	<0.035	<0.037 [<0.037]	<0.038	**<0.33**	**<0.33**	**<0.33**	**<0.33**	**<0.33**	**<0.33 [<0.33]**
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	{NLL}	10,000 {(C)}	{NLL}	890,000	{NA}	<0.19	<0.18	<0.18	<0.18	0.0672 J [0.508 J]	0.138 J	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Butylbenzylphthalate	mg/kg	310	310 {(C)}	120 {(X)}	310 {(C)}	310 {(C)}	21,000,000	{NA}	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Caprolactam	mg/kg	{NA}	1,000,000 {(D)}	{NA}	310,000 {(DD)}	340	290,000	{NA}	<0.19	<0.18 J	<0.18 J	<0.18	<0.19 [<0.19]	<0.19	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	820	1.1	2,400	39	78,000	{NA}	0.107 J	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	{NLL}	8,000	{NLL}	{ID}	{NA}	0.838	<0.18	<0.18	0.489	0.0583 J [<0.19]	<0.19	<0.33	<0.33	<0.33	0.448	<0.33	<0.33 [<0.33]
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	{ID}	{NA}	<0.19 J	<0.18	<0.18	<0.18	<0.19 J [<0.19 J]	<0.19 J	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Dibenzofuran	mg/kg	{NA}	{ID}	1.7	{ID}	{ID}	2,900	{NA}	<0.19	<0.18	<0.18	0.0522 J	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Diethylphthalate	mg/kg	740	740 {(C)}	2.2	740 {(C)}	320	1,500,000	{NA}	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Dimethylphthalate	mg/kg	790	790 {(C)}	{NA}	790 {(C)}	790 {(C)}	1,500,000	{NA}	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-38-04 0.2 - 2.2 08/21/01	RFI-38-04 8.2 - 10.2 08/21/01	RFI-38-04 16.2 - 18.2 08/21/01	RFI-38-05 0.6 - 2.6 08/24/01	RFI-38-05 8.6 - 10.6 08/24/01	RFI-38-05 14.6 - 16.6 08/24/01	RFI-38-07 0.8 - 2 10/11/12	RFI-38-07 5 - 7 10/11/12	RFI-38-08 0.7 - 2 10/11/12	RFI-38-08 3 - 4 10/11/12	RFI-38-09 0.4 - 1.1 10/11/12	RFI-38-10 0.9 - 2 10/12/12
Di-n-Butylphthalate	mg/kg	760	760 {(C)}	11	760 {(C)}	760 {(C)}	1,500,000	{NA}	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Di-n-Octylphthalate	mg/kg	140,000	140,000 {(C)}	{ID}	20,000	140,000 {(C)}	14,000,000	{NA}	<0.19 J	<0.18	<0.18	<0.18	<0.19 J [<0.19 J]	<0.19 J	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Fluoranthene	mg/kg	{NA}	730	5.5	130,000	730	4,100,000	{NA}	1.33	<0.18	<0.18	0.895	0.143 J [0.0475 J]	0.0664 J	<0.33	<0.33	<0.33	0.578	<0.33	<0.33 [<0.33]
Fluorene	mg/kg	{NA}	890	5.3	87,000	890	4,100,000	{NA}	<0.19	<0.18	<0.18	0.0682 J	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Hexachlorobenzene	mg/kg	{NA}	8.2	0.35	37	1.8	8,500	{NA}	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Hexachlorobutadiene	mg/kg	350	350 {(C)}	0.091	350 {(C)}	72	180,000	{NA}	**<0.19**	**<0.18**	**<0.18**	**<0.18**	**<0.19 [<0.19]**	**<0.19**	**<0.33**	**<0.33**	**<0.33**	**<0.33**	**<0.33**	**<0.33 [<0.33]**
Hexachlorocyclopentadiene	mg/kg	720	720 {(C)}	{ID}	720 {(C)}	320	5,900	{NA}	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	{NA}	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	0.489 J	<0.18	<0.18	0.12 J	<0.19 J [<0.19 J]	<0.19 J	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Isophorone	mg/kg	2,400	2,400 {(C)}	26 {(X)}	2,400 {(C)}	62	8,200,000	{NA}	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Methylphenols, Total	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NA}	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	{NA}	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Nitrobenzene	mg/kg	490	220	3.6 {(X)}	340	0.33 {(M)}	21,000	{NA}	<0.074	<0.071	<0.07	<0.072	<0.075 [<0.075]	<0.076	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	{NA}	5.4	0.33 {(M)}	2,000	{NA}	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
N-Nitrosodiphenylamine	mg/kg	{NA}	700	{NA}	7,800	22	2,800,000	{NA}	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Pentachlorophenol	mg/kg	{NA}	4.3	26.5 {(G,X)}	320	0.022	130,000	{NA}	**<0.74**	**<0.71**	**<0.7**	**<0.72**	**<0.75 [<0.75]**	**<0.76**	**<0.33**	**<0.33**	**<0.33**	**<0.33**	**<0.33**	**<0.33 [<0.33]**
Phenanthrene	mg/kg	{NA}	1,100	2.1	5,200	160	2,900	{NA}	0.755	<0.18	<0.18	0.521	0.136 J [0.0624 J]	0.0724 J	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Phenol	mg/kg	12,000	12,000 {(C)}	9	12,000 {(C,DD)}	260	18,000,000	{NA}	<0.19	<0.18	<0.18	<0.18	<0.19 [<0.19]	<0.19	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Pyrene	mg/kg	{NA}	480	{ID}	84,000	480	2,900,000	{NA}	1.91	<0.18	<0.18	1.33	0.16 J [0.0523 J]	0.0652 J	<0.33	<0.33	<0.33	0.526	<0.33	<0.33 [<0.33]
PCB																				
Aroclor-1016	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	<0.039	<0.037	<0.036	<0.038	<0.039 [<0.039]	<0.04	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Aroclor-1221	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	<0.039	<0.037	<0.036	<0.038	<0.039 [<0.039]	<0.04	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Aroclor-1232	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	<0.039	<0.037	<0.036	<0.038	<0.039 [<0.039]	<0.04	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Aroclor-1242	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	<0.039	<0.037	<0.036	<0.038	<0.039 [<0.039]	<0.04	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Aroclor-1248	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	<0.039	<0.037	<0.036	<0.038	<0.039 [0.079]	<0.04	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Aroclor-1254	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	<0.039	<0.037	<0.036	<0.038	<0.039 [<0.039]	<0.04	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Aroclor-1260	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	0.019 J	<0.037	<0.036	<0.038	<0.039 [<0.039]	<0.04	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 [<0.33]
Total PCBs	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	{NA}	0.019 J	<0.037	<0.036	<0.038	<0.039 [0.079]	<0.04	NA	NA	NA	NA	NA	NA
TPH																				
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																				
Antimony	mg/kg	{NA}	49,000	94 {(X)}	670	4.3	5,900	{NA}	<0.24 J	<0.27 J	<0.22 J	<0.25	<0.25 [<0.24]	<0.25	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 [<0.5]
Arsenic	mg/kg	{NA}	2,000	4.6	37	4.6	910	5.8	4.5	3.7	2.7	**4.8**	3.9 [<3.5]	4.4	0.85	0.82	0.99	1.73	0.9	0.44 [0.44]
Barium	mg/kg	{NA}	1,000,000	858 {(G)}	130,000	1,300	150,000	75	16	5.6	7.6	62	12 [11]	16	10.8	10.8	11.5	**76.9**	11.5	6.18 [6.34]
Beryllium	mg/kg	{NA}	1,000,000	408 {(G)}	1,600	51	590	{NA}	0.17	0.078 J	0.067 J	0.6	0.15 [0.15]	0.19	<0.2	<0.2	<0.2	0.3	<0.2	<0.2 [<0.2]
Cadmium	mg/kg	{NA}	230,000	5.74 {(G,X)}	2,100	6	2,200	1.2	0.29	0.078	0.064	0.29	0.09 [0.081]	0.13	<0.2	<0.2	<0.2	0.49	<0.2	<0.2 [<0.2]
Chromium Total	mg/kg	{NA}	1,000,000 {(D)}	4,960,000	1,000,000 {(D)}	1,000,000 {(D)}	150,000	18	8.6	3.9	4.9	**27**	5.7 [5]	6.7	1.45	1.48	1.89	4.03	1.23	0.8 [0.79]
Cobalt	mg/kg	{NA}	48,000	2	9,000	2	5,900	6.8	**3.2**	**2.1**	2	**6**	**3 [2.5]**	**3.3**	**2.3**	1.55	**2.75**	**3.65**	1.81	0.66 [0.66]
Copper	mg/kg	{NA}	1,000,000	124 {(G)}	73,000	5,800	59,000	32	9.2	<5	<5.3	24	5.8 [4.5]	9.9	1.66	2.56	3.08	29.9	1.75	0.9 [1.01]
Cyanide (total)	mg/kg	{NA}	250	0.1	250	4	250	0.39 {(total)}	**0.12 J**	**<0.2**	**<0.2**	**<0.2**	**<0.2 [<0.2]**	**<0.2**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]
Lead	mg/kg	{NA}	- -	5,450 {(G,X)}	900	700	44,000	21	13 J	3.9 J	4 J	**24**	5.5 [4.9]	6.8	3.71	4.03	7.56	**63.4**	3.35	1.69 [1.83]
Manganese	mg/kg	{NA}	180,000	95.3 {(G,X)}	90,000	1	1,500	440	**280**	**120 J**	**100 J**	**620**	**100 [100]**	**140**	**110**	**128**	**122**	**207**	**146**	**75.3 [70.5]**
Mercury	mg/kg	{NA}	47	0.05 {(M)}	580	1.7	8,800	0.13	**<0.078**	**<0.073**	**<0.072**	0.0266 J	**<0.078 [<0.079]**	**<0.08**	<0.05	<0.05	<0.05	**0.076**	<0.05	<0.05 [<0.05]
Nickel	mg/kg	{NA}	1,000,000	129 {(G)}	150,000	100	16,000	20	16	5.4	5.6	18	6.9 [6.1]	8.5	1.85	2.24	2.76	6.99	2.63	3.81 [3.55]
Selenium	mg/kg	{NA}	78,000	0.4	9,600	4	59,000	0.41	0.21	0.21 J	0.27 J	0.12	0.06 J [<0.095]	<0.1	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4 [<0.4]
Silver	mg/kg	{NA}	200,000	0.1 {(M)}	9,000	13	2,900	1	**0.14 J**	**0.34**	0.074 J	**0.25**	**0.13 J [0.091 J]**	**0.11 J**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 [<0.1]
Thallium	mg/kg	{NA}	15,000	4.2 {(X)}	130	2.3	5,900	{NA}	0.073 J	0.04 J	0.034 J	0.16 J	0.066 J [0.062 J]	0.06 J	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2 [<0.2]
Vanadium	mg/kg	{NA}	1,000,000	430	5,500	990	- -	{NA}	12	7.2	8.2	20	11 [9.4]	14	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	1,000,000	280 {(G)}	630,000	5,000	- -	47	33	21	18	**63**	27 [21]	36	3.92	4.97	6.56	**60.2**	5.46	2.97 [3.3]
Miscellaneous																				
Percent Moisture	mg/kg	- -	- -	- -	- -	- -	- -	- -	902,000	943,000	959,000	932,000	897,000 [891,000]	878,000	NA	NA	NA	NA	NA	NA
Total Solids	%	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	88	92	88	90	89	80 [90]

Notes:
Bold and highlighted cells indicate an exceedance of SDBL and one or more criteria.

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-38-10 5 - 7 10/12/12	RFI-38-11 0.5 - 2 10/11/12	RFI-38-11 3.5 - 4.5 10/11/12	RFI-38-12 0 - 2 03/21/13	RFI-38-12 0.7 - 1.4 10/12/12	RFI-38-12 3 - 5 03/21/13	RFI-38-12-1 0 - 2 03/21/13	RFI-38-12-1 3 - 5 03/21/13	RFI-38-12-2 0 - 2 03/21/13	RFI-38-12-2 3 - 5 03/21/13	RFI-38-12-4 0 - 2 03/21/13	RFI-38-12-4 3 - 5 03/21/13
VOC																				
1,1,1,2-Tetrachloroethane	mg/kg	440	440 {(C)}	{ID}	440 {(C)}	6.4	530,000	{NA}	<0.1	<0.1	<0.1	NA	<0.2	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	460 {(C)}	1.8	460 {(C)}	4	29,000,000	{NA}	<0.06	<0.07	<0.06	NA	<0.08	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6 {(X)}	240	0.7	68,000	{NA}	<0.06	<0.07	<0.06	NA	<0.08	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	550 {(C)}	1.7	550 {(C)}	550 {(C)}	2,300,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	420	6.6 {(X)}	840	0.1	250,000	{NA}	<0.06	<0.07	<0.06	NA	<0.08	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	890 {(C)}	15	890 {(C)}	50	15,000,000	{NA}	<0.06	<0.07	<0.06	NA	<0.08	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	220	2.6	570 {(C)}	0.14	78,000	{NA}	<0.06	<0.07	<0.06	NA	<0.08	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.38	<0.44	<0.42	NA	<0.5	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	830 {(C)}	{NA}	830 {(C)}	2.4	8,800	{NA}	<0.1	<0.1	<0.1	NA	<0.2	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.1	<0.1	<0.1	NA	<0.2	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	{NA}	<0.38	<0.44	<0.42	NA	<0.5	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	110 {(C)}	0.57	110 {(C)}	2.1	36,000,000	{NA}	<0.1	<0.1	<0.1	NA	<0.2	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.3	<0.3	<0.3	NA	<0.4	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.5	0.11 {(X)}	0.43	0.02 {(M)}	18,000	{NA}	<0.02 M	**<0.03 M**	**<0.03 M**	NA	**<0.03 M**	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	{NA}	<0.1	<0.1	<0.1	NA	<0.2	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	380	7.2 {(X)}	420	0.1	150,000	{NA}	<0.06	<0.07	<0.06	NA	<0.08	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	320	4.6 {(X)}	550 {(C)}	0.1	120,000	{NA}	<0.06	<0.07	<0.06	NA	<0.08	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	94 {(C)}	1.1	94 {(C)}	1.8	36,000,000	{NA}	<0.1	<0.1	<0.1	NA	<0.2	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	{NA}	<0.1	<0.1	<0.1	NA	<0.2	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	{NA}	<0.1	<0.1	<0.1	NA	<0.2	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	27,000 {(C)}	44	27,000 {(C,DD)}	760	29,000,000	{NA}	<0.87	<1	<0.94	NA	<1.1	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	2,500 {(C)}	{ID}	2,500 {(C)}	58	1,200,000	{NA}	<3	<3	<3	NA	<4	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	{NA}	<0.38	<0.44	<0.42	NA	<0.5	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	2,700 {(C)}	{ID}	2,700 {(C)}	100	60,000,000	{NA}	<3	<3	<3	NA	<4	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	110,000 {(C)}	34	73,000	42	170,000,000	{NA}	<1	<1	<1	NA	<2	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	8,300	280	0.1 {(M)}	74	0.22	58,000	{NA}	<0.1	<0.1	<0.1	NA	**<0.2**	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	220	4 {(X)}	400 {(C)}	0.1	470,000	{NA}	<0.06	<0.07	<0.06	NA	<0.08	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	mg/kg	760	360	{NA}	760 {(C)}	1.5	240,000	{NA}	<0.1	<0.1	<0.1	NA	<0.2	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.1	<0.1	<0.1	NA	<0.2	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	280	{ID}	490	1.6 {(W)}	110,000	{NA}	<0.1	<0.1	<0.1	NA	<0.2	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	870 {(C)}	{ID}	870 {(C)}	1.6 {(W)}	3,600,000	{NA}	<0.1	<0.1	<0.1	NA	<0.2	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	{NA}	<0.2	<0.3	<0.3	NA	<0.3	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	280 {(C)}	{ID}	280 {(C,DD)}	46	21,000,000	{NA}	<0.3	<0.3	<0.3	NA	<0.4	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	92	0.9 {(X)}	390 {(C)}	0.1	170,000	{NA}	<0.06	<0.07	<0.06	NA	<0.08	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	260 {(C)}	0.5	260 {(C)}	2	2,100,000	{NA}	<0.06	<0.07	<0.06	NA	<0.08	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	950 {(C)}	22 {(X)}	950 {(C)}	34	290,000,000	{NA}	<0.3	<0.3	<0.3	NA	<0.4	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	1,500 {(C)}	7	1,500 {(C)}	1.6 {(W)}	1,600,000	{NA}	<0.06	<0.07	<0.06	NA	<0.08	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	22	2,600,000	{NA}	<0.3	<0.3	<0.3	NA	<0.4	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	640 {(C)}	12	640 {(C)}	1.4	1,000,000	{NA}	<0.06	<0.07	<0.06	NA	<0.08	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	- -	<0.06	<0.07	<0.06	NA	<0.08	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	360	{ID}	500	1.6 {(W)}	160,000	{NA}	<0.1	<0.1	<0.1	NA	<0.2	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	mg/kg	2,000	2,000 {(C)}	{NA}	2,000 {(C)}	4.6	{ID}	{NA}	<0.3	<0.3	<0.3	NA	<0.4	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	1,000 {(C)}	{ID}	1,000 {(C)}	270	1,500,000,000	{NA}	<0.3	<0.3	<0.3	NA	<0.4	NA	NA	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	7,400 {(C)}	{ID}	7,400 {(C)}	0.2	350,000,000	{NA}	<0.2	**<0.3**	**<0.3**	NA	**<0.3**	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	140 {(C)}	0.36	140 {(C)}	1.5	13,000,000	{NA}	<0.06	<0.07	<0.06	NA	<0.08	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	{NA}	<0.3	<0.4	<0.4	NA	<0.5	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.1	<0.1	<0.1	NA	<0.2	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	390 {(C)}	3.2	390 {(C)}	260	2,600,000	{NA}	<0.3	<0.3	<0.3	NA	<0.4	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	- -	<0.1	<0.1	<0.1	NA	<0.2	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	5,900 {(C)}	140 {(X)}	5,900 {(C)}	0.8	88,000,000	{NA}	<0.2	<0.3	<0.3	NA	<0.3	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	2,300 {(C)}	30 {(X)}	2,300 {(C)}	0.1	8,300,000	{NA}	<0.1	<0.1	<0.1	NA	**<0.2**	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	{NA}	<0.38	<0.44	<0.42	NA	<0.5	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	120	{ID}	8,000	4.6	880,000	{NA}	<0.06	<0.07	<0.06	NA	<0.08	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	300	{ID}	8,000	4.6	590,000	{NA}	<0.1	<0.1	<0.1	NA	<0.2	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	- -	<0.06	<0.07	<0.06	NA	<0.08	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.1	<0.1	<0.1	NA	<0.2	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	88	{ID}	8,000	4.6	180,000	{NA}	<0.06	<0.07	<0.06	NA	<0.08	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	270	2.1 {(X)}	520 {(C)}	2.7	6,900,000	{NA}	<0.06	<0.07	<0.06	NA	<0.08	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	mg/kg	10,000	180	{ID}	8,000	4.6	290,000	{NA}	<0.06	<0.07	<0.06	NA	<0.08	NA	NA	NA	NA	NA	NA	NA

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-38-10 5 - 7 10/12/12	RFI-38-11 0.5 - 2 10/11/12	RFI-38-11 3.5 - 4.5 10/11/12	RFI-38-12 0 - 2 03/21/13	RFI-38-12 0.7 - 1.4 10/12/12	RFI-38-12 3 - 5 03/21/13	RFI-38-12-1 0 - 2 03/21/13	RFI-38-12-1 3 - 5 03/21/13	RFI-38-12-2 0 - 2 03/21/13	RFI-38-12-2 3 - 5 03/21/13	RFI-38-12-4 0 - 2 03/21/13	RFI-38-12-4 3 - 5 03/21/13
Tetrachloroethene	mg/kg	88	88 {(C)}	1.2 {(X)}	88 {(C)}	0.1	1,200,000	{NA}	<0.06	<0.07	<0.06	NA	<0.08	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	mg/kg	120,000	32,000	220 {(X)}	9,500	5.4	170,000,000	{NA}	<1	<1	<1	NA	<2	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	250 {(C)}	5.4	250 {(C)}	16	12,000,000	{NA}	<0.1	<0.1	<0.1	NA	<0.2	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	1,400 {(C)}	30 {(X)}	1,400 {(C)}	2	2,100,000	{NA}	<0.06	<0.07	<0.06	NA	<0.08	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	- -	<0.06	<0.07	<0.06	NA	<0.08	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.06	<0.07	<0.06	NA	<0.08	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	440	4 {(X)}	500 {(C,DD)}	0.1	59,000	{NA}	<0.06	<0.07	<0.06	NA	<0.08	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	560 {(C)}	{NA}	560 {(C)}	150	1,700,000,000	{NA}	<0.1	<0.1	<0.1	NA	<0.2	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	20	0.26 {(X)}	34	0.04	890,000	{NA}	**<0.06**	**<0.07**	**<0.06**	NA	**<0.08**	NA	NA	NA	NA	NA	NA	NA
SVOC																				
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	{NA}	**<0.33**	**<0.33**	**<0.33**	NA	**<0.33**	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	9,100	{NA}	73,000	110	10,000,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	200	0.33 {(M)}	3,300	9.4	1,300,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	960	0.33 {(M)}	1,800 {(C,DD)}	4.2	2,300,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	10,000	7.6	36,000	20	2,100,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.83	<0.83	<0.83	NA	<0.83	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	170	{NA}	220	0.64	20,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	2,300	{NA}	180,000	1,800	{ID}	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	1,900	0.36	4,500	2.6	530,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	- -	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.83	<0.83	<0.83	NA	<0.83	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	1,600	{ID}	2,000	1.2	{ID}	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	- -	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	4.6	2 {(M)}	30	2 {(M)}	8,200	{NA}	<2	<2	<2	NA	<2	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.83	<0.83	<0.83	NA	<0.83	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.83	<0.83	<0.83	NA	<0.83	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	3,000	0.28	15,000	16	{ID}	{NA}	<0.28	<0.28	<0.28	NA	<0.28	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.83	<0.83	<0.83	NA	<0.83	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.83	<0.83	<0.83	NA	<0.83	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	970	8.7	130,000	880	6,200,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	440	{ID}	5,200	17	1,000,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	88	14,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	41	{ID}	730,000	41	29,000,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	110	0.15	330 {(DD)}	0.06	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	1,900	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	{NLL}	7,000	{NLL}	350,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	800	{NLL}	{ID}	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1 {(M)}	58	0.17	12,000	{NA}	**<0.33**	**<0.33**	**<0.33**	NA	**<0.33**	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	{NLL}	10,000 {(C)}	{NLL}	890,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	310 {(C)}	120 {(X)}	310 {(C)}	310 {(C)}	21,000,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	1,000,000 {(D)}	{NA}	310,000 {(DD)}	340	290,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	820	1.1	2,400	39	78,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	{NLL}	8,000	{NLL}	{ID}	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	{ID}	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	1.7	{ID}	{ID}	2,900	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	740 {(C)}	2.2	740 {(C)}	320	1,500,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	790 {(C)}	{NA}	790 {(C)}	790 {(C)}	1,500,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-38-10 5 - 7 10/12/12	RFI-38-11 0.5 - 2 10/11/12	RFI-38-11 3.5 - 4.5 10/11/12	RFI-38-12 0 - 2 03/21/13	RFI-38-12 0.7 - 1.4 10/12/12	RFI-38-12 3 - 5 03/21/13	RFI-38-12-1 0 - 2 03/21/13	RFI-38-12-1 3 - 5 03/21/13	RFI-38-12-2 0 - 2 03/21/13	RFI-38-12-2 3 - 5 03/21/13	RFI-38-12-4 0 - 2 03/21/13	RFI-38-12-4 3 - 5 03/21/13
Di-n-Butylphthalate	mg/kg	760	760 {(C)}	11	760 {(C)}	760 {(C)}	1,500,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	140,000 {(C)}	{ID}	20,000	140,000 {(C)}	14,000,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	730	5.5	130,000	730	4,100,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	890	5.3	87,000	890	4,100,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	8.2	0.35	37	1.8	8,500	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	350 {(C)}	0.091	350 {(C)}	72	180,000	{NA}	**<0.33**	**<0.33**	**<0.33**	NA	**<0.33**	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	720 {(C)}	{ID}	720 {(C)}	320	5,900	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	2,400 {(C)}	26 {(X)}	2,400 {(C)}	62	8,200,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	220	3.6 {(X)}	340	0.33 {(M)}	21,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	{NA}	5.4	0.33 {(M)}	2,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	700	{NA}	7,800	22	2,800,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	4.3	26.5 {(G,X)}	320	0.022	130,000	{NA}	**<0.33**	**<0.33**	**<0.33**	NA	**<0.33**	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	1,100	2.1	5,200	160	2,900	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	12,000 {(C)}	9	12,000 {(C,DD)}	260	18,000,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	480	{ID}	84,000	480	2,900,000	{NA}	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
PCB																				
Aroclor-1016	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	<0.33	<0.33	<0.33	NA	<0.33	NA	NA	NA	NA	NA	NA	NA
Total PCBs	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH																				
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																				
Antimony	mg/kg	{NA}	49,000	94 {(X)}	670	4.3	5,900	{NA}	<0.5	<0.5	<0.5	NA	<0.5	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	2,000	4.6	37	4.6	910	5.8	0.94	0.96	1	NA	3.04	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	1,000,000	858 {(G)}	130,000	1,300	150,000	75	6.53	11.4	13.4	NA	**340**	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,000,000	408 {(G)}	1,600	51	590	{NA}	<0.2	<0.2	<0.2	NA	2.7	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	230,000	5.74 {(G,X)}	2,100	6	2,200	1.2	<0.2	<0.2	<0.2	NA	0.94	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	{NA}	1,000,000 {(D)}	4,960,000	1,000,000 {(D)}	1,000,000 {(D)}	150,000	18	1	1.33	1.3	NA	**199**	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	48,000	2	9,000	2	5,900	6.8	1.06	1.53	1.83	NA	**70.1**	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	1,000,000	124 {(G)}	73,000	5,800	59,000	32	3.14	1.5	1.82	NA	**127**	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	0.1	250	4	250	0.39 {(total)}	<0.1	<0.1	<0.1	NA	<0.1	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	- -	5,450 {(G,X)}	900	700	44,000	21	3.16	3.37	3.16	NA	**133**	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	180,000	95.3 {(G,X)}	90,000	1	1,500	440	**52.7**	**171**	**187**	**491**	**6,750**	**338**	**1,790**	**63.7**	**2,200**	**115**	**3,110**	**1,180**
Mercury	mg/kg	{NA}	47	0.05 {(M)}	580	1.7	8,800	0.13	<0.05	<0.05	<0.05	NA	<0.05	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	1,000,000	129 {(G)}	150,000	100	16,000	20	1.79	2.34	2.87	NA	**68.9**	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	78,000	0.4	9,600	4	59,000	0.41	<0.4	<0.4	<0.4	NA	<0.4	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	200,000	0.1 {(M)}	9,000	13	2,900	1	<0.1	<0.1	<0.1	NA	**1.08**	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	15,000	4.2 {(X)}	130	2.3	5,900	{NA}	<0.2	<0.2	<0.2	NA	<0.2	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	1,000,000	430	5,500	990	- -	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	1,000,000	280 {(G)}	630,000	5,000	- -	47	6.54	4.47	5.49	NA	**518**	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																				
Percent Moisture	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	- -	- -	- -	- -	- -	- -	- -	92	87	87	93	91	86	84	86	88	88	87	93

Notes:
Bold and highlighted cells indicate an exceedance of SDBL and one or more criteria.

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-38-12-5 0 - 2 03/21/13	RFI-38-12-5 3 - 5 03/21/13	RFI-38-12-6 0 - 2 03/21/13	RFI-38-12-6 3 - 5 03/21/13	RFI-38-12-7 0 - 2 03/21/13	RFI-38-12-7 3 - 5 03/21/13	RFI-38-12-8 0 - 2 03/21/13	RFI-38-12-8 3 - 5 03/21/13	RFI-38-12-9 0 - 2 03/21/13	RFI-38-12-9 3 - 5 03/21/13	RFI-38-12-10 0 - 2 05/09/13
VOC																			
1,1,1,2-Tetrachloroethane	mg/kg	440	440 {(C)}	{ID}	440 {(C)}	6.4	530,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	460 {(C)}	1.8	460 {(C)}	4	29,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6 {(X)}	240	0.7	68,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	550 {(C)}	1.7	550 {(C)}	550 {(C)}	2,300,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	420	6.6 {(X)}	840	0.1	250,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	890 {(C)}	15	890 {(C)}	50	15,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	220	2.6	570 {(C)}	0.14	78,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	830 {(C)}	{NA}	830 {(C)}	2.4	8,800	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	110 {(C)}	0.57	110 {(C)}	2.1	36,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.5	0.11 {(X)}	0.43	0.02 {(M)}	18,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	380	7.2 {(X)}	420	0.1	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	320	4.6 {(X)}	550 {(C)}	0.1	120,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	94 {(C)}	1.1	94 {(C)}	1.8	36,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	27,000 {(C)}	44	27,000 {(C,DD)}	760	29,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	2,500 {(C)}	{ID}	2,500 {(C)}	58	1,200,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	2,700 {(C)}	{ID}	2,700 {(C)}	100	60,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	110,000 {(C)}	34	73,000	42	170,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	8,300	280	0.1 {(M)}	74	0.22	58,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	220	4 {(X)}	400 {(C)}	0.1	470,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	mg/kg	760	360	{NA}	760 {(C)}	1.5	240,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	280	{ID}	490	1.6 {(W)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	870 {(C)}	{ID}	870 {(C)}	1.6 {(W)}	3,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	280 {(C)}	{ID}	280 {(C,DD)}	46	21,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	92	0.9 {(X)}	390 {(C)}	0.1	170,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	260 {(C)}	0.5	260 {(C)}	2	2,100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	950 {(C)}	22 {(X)}	950 {(C)}	34	290,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	1,500 {(C)}	7	1,500 {(C)}	1.6 {(W)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	22	2,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	640 {(C)}	12	640 {(C)}	1.4	1,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	360	{ID}	500	1.6 {(W)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	mg/kg	2,000	2,000 {(C)}	{NA}	2,000 {(C)}	4.6	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	1,000 {(C)}	{ID}	1,000 {(C)}	270	1,500,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	7,400 {(C)}	{ID}	7,400 {(C)}	0.2	350,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	140 {(C)}	0.36	140 {(C)}	1.5	13,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	390 {(C)}	3.2	390 {(C)}	260	2,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	5,900 {(C)}	140 {(X)}	5,900 {(C)}	0.8	88,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	2,300 {(C)}	30 {(X)}	2,300 {(C)}	0.1	8,300,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	120	{ID}	8,000	4.6	880,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	300	{ID}	8,000	4.6	590,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	88	{ID}	8,000	4.6	180,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	270	2.1 {(X)}	520 {(C)}	2.7	6,900,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	mg/kg	10,000	180	{ID}	8,000	4.6	290,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-38-12-5 0 - 2 03/21/13	RFI-38-12-5 3 - 5 03/21/13	RFI-38-12-6 0 - 2 03/21/13	RFI-38-12-6 3 - 5 03/21/13	RFI-38-12-7 0 - 2 03/21/13	RFI-38-12-7 3 - 5 03/21/13	RFI-38-12-8 0 - 2 03/21/13	RFI-38-12-8 3 - 5 03/21/13	RFI-38-12-9 0 - 2 03/21/13	RFI-38-12-9 3 - 5 03/21/13	RFI-38-12-10 0 - 2 05/09/13
Tetrachloroethene	mg/kg	88	88 {(C)}	1.2 {(X)}	88 {(C)}	0.1	1,200,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	mg/kg	120,000	32,000	220 {(X)}	9,500	5.4	170,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	250 {(C)}	5.4	250 {(C)}	16	12,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	1,400 {(C)}	30 {(X)}	1,400 {(C)}	2	2,100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	440	4 {(X)}	500 {(C,DD)}	0.1	59,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	560 {(C)}	{NA}	560 {(C)}	150	1,700,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	20	0.26 {(X)}	34	0.04	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																			
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	9,100	{NA}	73,000	110	10,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	200	0.33 {(M)}	3,300	9.4	1,300,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	960	0.33 {(M)}	1,800 {(C,DD)}	4.2	2,300,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	10,000	7.6	36,000	20	2,100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	170	{NA}	220	0.64	20,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	2,300	{NA}	180,000	1,800	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	1,900	0.36	4,500	2.6	530,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	1,600	{ID}	2,000	1.2	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	4.6	2 {(M)}	30	2 {(M)}	8,200	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	3,000	0.28	15,000	16	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	970	8.7	130,000	880	6,200,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	440	{ID}	5,200	17	1,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	88	14,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	41	{ID}	730,000	41	29,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	110	0.15	330 {(DD)}	0.06	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	1,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	{NLL}	7,000	{NLL}	350,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	800	{NLL}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1 {(M)}	58	0.17	12,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	{NLL}	10,000 {(C)}	{NLL}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	310 {(C)}	120 {(X)}	310 {(C)}	310 {(C)}	21,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	1,000,000 {(D)}	{NA}	310,000 {(DD)}	340	290,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	820	1.1	2,400	39	78,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	{NLL}	8,000	{NLL}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	1.7	{ID}	{ID}	2,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	740 {(C)}	2.2	740 {(C)}	320	1,500,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	790 {(C)}	{NA}	790 {(C)}	790 {(C)}	1,500,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-38-12-5 0 - 2 03/21/13	RFI-38-12-5 3 - 5 03/21/13	RFI-38-12-6 0 - 2 03/21/13	RFI-38-12-6 3 - 5 03/21/13	RFI-38-12-7 0 - 2 03/21/13	RFI-38-12-7 3 - 5 03/21/13	RFI-38-12-8 0 - 2 03/21/13	RFI-38-12-8 3 - 5 03/21/13	RFI-38-12-9 0 - 2 03/21/13	RFI-38-12-9 3 - 5 03/21/13	RFI-38-12-10 0 - 2 05/09/13
Di-n-Butylphthalate	mg/kg	760	760 {(C)}	11	760 {(C)}	760 {(C)}	1,500,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	140,000 {(C)}	{ID}	20,000	140,000 {(C)}	14,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	730	5.5	130,000	730	4,100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	890	5.3	87,000	890	4,100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	8.2	0.35	37	1.8	8,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	350 {(C)}	0.091	350 {(C)}	72	180,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	720 {(C)}	{ID}	720 {(C)}	320	5,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	2,400 {(C)}	26 {(X)}	2,400 {(C)}	62	8,200,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	220	3.6 {(X)}	340	0.33 {(M)}	21,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	{NA}	5.4	0.33 {(M)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	700	{NA}	7,800	22	2,800,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	4.3	26.5 {(G,X)}	320	0.022	130,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	1,100	2.1	5,200	160	2,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	12,000 {(C)}	9	12,000 {(C,DD)}	260	18,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	480	{ID}	84,000	480	2,900,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB																			
Aroclor-1016	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH																			
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																			
Antimony	mg/kg	{NA}	49,000	94 {(X)}	670	4.3	5,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	2,000	4.6	37	4.6	910	5.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	1,000,000	858 {(G)}	130,000	1,300	150,000	75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,000,000	408 {(G)}	1,600	51	590	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	230,000	5.74 {(G,X)}	2,100	6	2,200	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	{NA}	1,000,000 {(D)}	4,960,000	1,000,000 {(D)}	1,000,000 {(D)}	150,000	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	48,000	2	9,000	2	5,900	6.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	1,000,000	124 {(G)}	73,000	5,800	59,000	32	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	0.1	250	4	250	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	- -	5,450 {(G,X)}	900	700	44,000	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	180,000	95.3 {(G,X)}	90,000	1	1,500	440	**4,440**	**210**	**339**	**47.9**	**177**	**228**	**141**	**94.2**	**461**	**34.9**	**1,090**
Mercury	mg/kg	{NA}	47	0.05 {(M)}	580	1.7	8,800	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	1,000,000	129 {(G)}	150,000	100	16,000	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	78,000	0.4	9,600	4	59,000	0.41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	200,000	0.1 {(M)}	9,000	13	2,900	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	15,000	4.2 {(X)}	130	2.3	5,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	1,000,000	430	5,500	990	- -	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	1,000,000	280 {(G)}	630,000	5,000	- -	47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																			
Percent Moisture	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	- -	- -	- -	- -	- -	- -	- -	83	85	84	83	90	87	90	85	90	95	90

Notes:
Bold and highlighted cells indicate an exceedance of SDBL and one or more criteria.

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-38-12-11 1 - 2 05/09/13	RFI-38-12-12 0 - 2 05/09/13	RFI-38-12-13 0 - 2 06/05/13	RFI-38-12-14 0 - 2 05/09/13	RFI-38-12-15 0 - 2 05/09/13	RFI-38-12-16 1 - 2 05/10/13	RFI-38-12-17 1 - 2 05/09/13	RFI-38-12-19 0 - 2 06/05/13	RFI-38-12-20 0 - 2 05/28/13	RFI-38-12-21 0 - 2 06/05/13
VOC																		
1,1,1,2-Tetrachloroethane	mg/kg	440	440 {(C)}	{ID}	440 {(C)}	6.4	530,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	460 {(C)}	1.8	460 {(C)}	4	29,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6 {(X)}	240	0.7	68,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	550 {(C)}	1.7	550 {(C)}	550 {(C)}	2,300,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	420	6.6 {(X)}	840	0.1	250,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	890 {(C)}	15	890 {(C)}	50	15,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	220	2.6	570 {(C)}	0.14	78,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	830 {(C)}	{NA}	830 {(C)}	2.4	8,800	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	110 {(C)}	0.57	110 {(C)}	2.1	36,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.5	0.11 {(X)}	0.43	0.02 {(M)}	18,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	380	7.2 {(X)}	420	0.1	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	320	4.6 {(X)}	550 {(C)}	0.1	120,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	94 {(C)}	1.1	94 {(C)}	1.8	36,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	27,000 {(C)}	44	27,000 {(C,DD)}	760	29,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	2,500 {(C)}	{ID}	2,500 {(C)}	58	1,200,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	2,700 {(C)}	{ID}	2,700 {(C)}	100	60,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	110,000 {(C)}	34	73,000	42	170,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	8,300	280	0.1 {(M)}	74	0.22	58,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	220	4 {(X)}	400 {(C)}	0.1	470,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	mg/kg	760	360	{NA}	760 {(C)}	1.5	240,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	280	{ID}	490	1.6 {(W)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	870 {(C)}	{ID}	870 {(C)}	1.6 {(W)}	3,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	280 {(C)}	{ID}	280 {(C,DD)}	46	21,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	92	0.9 {(X)}	390 {(C)}	0.1	170,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	260 {(C)}	0.5	260 {(C)}	2	2,100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	950 {(C)}	22 {(X)}	950 {(C)}	34	290,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	1,500 {(C)}	7	1,500 {(C)}	1.6 {(W)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	22	2,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	640 {(C)}	12	640 {(C)}	1.4	1,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	360	{ID}	500	1.6 {(W)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	mg/kg	2,000	2,000 {(C)}	{NA}	2,000 {(C)}	4.6	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	1,000 {(C)}	{ID}	1,000 {(C)}	270	1,500,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	7,400 {(C)}	{ID}	7,400 {(C)}	0.2	350,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	140 {(C)}	0.36	140 {(C)}	1.5	13,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	390 {(C)}	3.2	390 {(C)}	260	2,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	5,900 {(C)}	140 {(X)}	5,900 {(C)}	0.8	88,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	2,300 {(C)}	30 {(X)}	2,300 {(C)}	0.1	8,300,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	120	{ID}	8,000	4.6	880,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	300	{ID}	8,000	4.6	590,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	88	{ID}	8,000	4.6	180,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	270	2.1 {(X)}	520 {(C)}	2.7	6,900,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	mg/kg	10,000	180	{ID}	8,000	4.6	290,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-38-12-11 1 - 2 05/09/13	RFI-38-12-12 0 - 2 05/09/13	RFI-38-12-13 0 - 2 06/05/13	RFI-38-12-14 0 - 2 05/09/13	RFI-38-12-15 0 - 2 05/09/13	RFI-38-12-16 1 - 2 05/10/13	RFI-38-12-17 1 - 2 05/09/13	RFI-38-12-19 0 - 2 06/05/13	RFI-38-12-20 0 - 2 05/28/13	RFI-38-12-21 0 - 2 06/05/13
Tetrachloroethene	mg/kg	88	88 {(C)}	1.2 {(X)}	88 {(C)}	0.1	1,200,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	mg/kg	120,000	32,000	220 {(X)}	9,500	5.4	170,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	250 {(C)}	5.4	250 {(C)}	16	12,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	1,400 {(C)}	30 {(X)}	1,400 {(C)}	2	2,100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	440	4 {(X)}	500 {(C,DD)}	0.1	59,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	560 {(C)}	{NA}	560 {(C)}	150	1,700,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	20	0.26 {(X)}	34	0.04	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																		
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	9,100	{NA}	73,000	110	10,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	200	0.33 {(M)}	3,300	9.4	1,300,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	960	0.33 {(M)}	1,800 {(C,DD)}	4.2	2,300,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	10,000	7.6	36,000	20	2,100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	170	{NA}	220	0.64	20,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	2,300	{NA}	180,000	1,800	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	1,900	0.36	4,500	2.6	530,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	1,600	{ID}	2,000	1.2	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	4.6	2 {(M)}	30	2 {(M)}	8,200	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	3,000	0.28	15,000	16	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	970	8.7	130,000	880	6,200,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	440	{ID}	5,200	17	1,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	88	14,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	41	{ID}	730,000	41	29,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	110	0.15	330 {(DD)}	0.06	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	1,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	{NLL}	7,000	{NLL}	350,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	800	{NLL}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1 {(M)}	58	0.17	12,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	{NLL}	10,000 {(C)}	{NLL}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	310 {(C)}	120 {(X)}	310 {(C)}	310 {(C)}	21,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	1,000,000 {(D)}	{NA}	310,000 {(DD)}	340	290,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	820	1.1	2,400	39	78,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	{NLL}	8,000	{NLL}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	1.7	{ID}	{ID}	2,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	740 {(C)}	2.2	740 {(C)}	320	1,500,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	790 {(C)}	{NA}	790 {(C)}	790 {(C)}	1,500,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-38-12-11 1 - 2 05/09/13	RFI-38-12-12 0 - 2 05/09/13	RFI-38-12-13 0 - 2 06/05/13	RFI-38-12-14 0 - 2 05/09/13	RFI-38-12-15 0 - 2 05/09/13	RFI-38-12-16 1 - 2 05/10/13	RFI-38-12-17 1 - 2 05/09/13	RFI-38-12-19 0 - 2 06/05/13	RFI-38-12-20 0 - 2 05/28/13	RFI-38-12-21 0 - 2 06/05/13
Di-n-Butylphthalate	mg/kg	760	760 {(C)}	11	760 {(C)}	760 {(C)}	1,500,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	140,000 {(C)}	{ID}	20,000	140,000 {(C)}	14,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	730	5.5	130,000	730	4,100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	890	5.3	87,000	890	4,100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	8.2	0.35	37	1.8	8,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	350 {(C)}	0.091	350 {(C)}	72	180,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	720 {(C)}	{ID}	720 {(C)}	320	5,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	2,400 {(C)}	26 {(X)}	2,400 {(C)}	62	8,200,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	220	3.6 {(X)}	340	0.33 {(M)}	21,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	{NA}	5.4	0.33 {(M)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	700	{NA}	7,800	22	2,800,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	4.3	26.5 {(G,X)}	320	0.022	130,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	1,100	2.1	5,200	160	2,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	12,000 {(C)}	9	12,000 {(C,DD)}	260	18,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	480	{ID}	84,000	480	2,900,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB																		
Aroclor-1016	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH																		
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																		
Antimony	mg/kg	{NA}	49,000	94 {(X)}	670	4.3	5,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	2,000	4.6	37	4.6	910	5.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	1,000,000	858 {(G)}	130,000	1,300	150,000	75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,000,000	408 {(G)}	1,600	51	590	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	230,000	5.74 {(G,X)}	2,100	6	2,200	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	{NA}	1,000,000 {(D)}	4,960,000	1,000,000 {(D)}	1,000,000 {(D)}	150,000	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	48,000	2	9,000	2	5,900	6.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	1,000,000	124 {(G)}	73,000	5,800	59,000	32	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	0.1	250	4	250	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	- -	5,450 {(G,X)}	900	700	44,000	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	180,000	95.3 {(G,X)}	90,000	1	1,500	440	**210**	**1,980**	**170**	**466**	**355**	**718**	**464**	**431**	**604**	**386**
Mercury	mg/kg	{NA}	47	0.05 {(M)}	580	1.7	8,800	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	1,000,000	129 {(G)}	150,000	100	16,000	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	78,000	0.4	9,600	4	59,000	0.41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	200,000	0.1 {(M)}	9,000	13	2,900	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	15,000	4.2 {(X)}	130	2.3	5,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	1,000,000	430	5,500	990	- -	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	1,000,000	280 {(G)}	630,000	5,000	- -	47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																		
Percent Moisture	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	- -	- -	- -	- -	- -	- -	- -	85	92	87	89	86	90	90	89	90	89

Notes:
Bold and highlighted cells indicate an exceedance of SDBL and one or more criteria.

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-38-12-22 1 - 2 10/30/13	RFI-38-12-23 1.2 - 2 10/30/13	RFI-38-12-24 1 - 2 10/30/13	RFI-38-12-25 0.8 - 2 10/30/13	RFI-38-12-26 0.5 - 2 10/30/13	RFI-38-12-27 0.5 - 2 10/30/13	RFI-38-12-28 0.5 - 2 10/30/13	RFI-38-12-29 0.5 - 2 10/30/13	RFI-38-12-30 0.5 - 2 10/30/13
VOC																	
1,1,1,2-Tetrachloroethane	mg/kg	440	440 {(C)}	{ID}	440 {(C)}	6.4	530,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	460 {(C)}	1.8	460 {(C)}	4	29,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6 {(X)}	240	0.7	68,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	550 {(C)}	1.7	550 {(C)}	550 {(C)}	2,300,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	420	6.6 {(X)}	840	0.1	250,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	890 {(C)}	15	890 {(C)}	50	15,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	220	2.6	570 {(C)}	0.14	78,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	830 {(C)}	{NA}	830 {(C)}	2.4	8,800	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	110 {(C)}	0.57	110 {(C)}	2.1	36,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.5	0.11 {(X)}	0.43	0.02 {(M)}	18,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	380	7.2 {(X)}	420	0.1	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	320	4.6 {(X)}	550 {(C)}	0.1	120,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	94 {(C)}	1.1	94 {(C)}	1.8	36,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	27,000 {(C)}	44	27,000 {(C,DD)}	760	29,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	2,500 {(C)}	{ID}	2,500 {(C)}	58	1,200,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	2,700 {(C)}	{ID}	2,700 {(C)}	100	60,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	110,000 {(C)}	34	73,000	42	170,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	8,300	280	0.1 {(M)}	74	0.22	58,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	220	4 {(X)}	400 {(C)}	0.1	470,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	mg/kg	760	360	{NA}	760 {(C)}	1.5	240,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	280	{ID}	490	1.6 {(W)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	870 {(C)}	{ID}	870 {(C)}	1.6 {(W)}	3,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	280 {(C)}	{ID}	280 {(C,DD)}	46	21,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	92	0.9 {(X)}	390 {(C)}	0.1	170,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	260 {(C)}	0.5	260 {(C)}	2	2,100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	950 {(C)}	22 {(X)}	950 {(C)}	34	290,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	1,500 {(C)}	7	1,500 {(C)}	1.6 {(W)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	22	2,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	640 {(C)}	12	640 {(C)}	1.4	1,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	360	{ID}	500	1.6 {(W)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	mg/kg	2,000	2,000 {(C)}	{NA}	2,000 {(C)}	4.6	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	1,000 {(C)}	{ID}	1,000 {(C)}	270	1,500,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	7,400 {(C)}	{ID}	7,400 {(C)}	0.2	350,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	140 {(C)}	0.36	140 {(C)}	1.5	13,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	390 {(C)}	3.2	390 {(C)}	260	2,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	5,900 {(C)}	140 {(X)}	5,900 {(C)}	0.8	88,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	2,300 {(C)}	30 {(X)}	2,300 {(C)}	0.1	8,300,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	120	{ID}	8,000	4.6	880,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	300	{ID}	8,000	4.6	590,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	88	{ID}	8,000	4.6	180,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	270	2.1 {(X)}	520 {(C)}	2.7	6,900,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	mg/kg	10,000	180	{ID}	8,000	4.6	290,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-38-12-22 1 - 2 10/30/13	RFI-38-12-23 1.2 - 2 10/30/13	RFI-38-12-24 1 - 2 10/30/13	RFI-38-12-25 0.8 - 2 10/30/13	RFI-38-12-26 0.5 - 2 10/30/13	RFI-38-12-27 0.5 - 2 10/30/13	RFI-38-12-28 0.5 - 2 10/30/13	RFI-38-12-29 0.5 - 2 10/30/13	RFI-38-12-30 0.5 - 2 10/30/13
Tetrachloroethene	mg/kg	88	88 {(C)}	1.2 {(X)}	88 {(C)}	0.1	1,200,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	mg/kg	120,000	32,000	220 {(X)}	9,500	5.4	170,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	250 {(C)}	5.4	250 {(C)}	16	12,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	1,400 {(C)}	30 {(X)}	1,400 {(C)}	2	2,100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	440	4 {(X)}	500 {(C,DD)}	0.1	59,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	560 {(C)}	{NA}	560 {(C)}	150	1,700,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	20	0.26 {(X)}	34	0.04	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																	
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	9,100	{NA}	73,000	110	10,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	200	0.33 {(M)}	3,300	9.4	1,300,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	960	0.33 {(M)}	1,800 {(C,DD)}	4.2	2,300,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	10,000	7.6	36,000	20	2,100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	170	{NA}	220	0.64	20,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	2,300	{NA}	180,000	1,800	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	1,900	0.36	4,500	2.6	530,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	1,600	{ID}	2,000	1.2	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	4.6	2 {(M)}	30	2 {(M)}	8,200	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	3,000	0.28	15,000	16	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	970	8.7	130,000	880	6,200,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	440	{ID}	5,200	17	1,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	88	14,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	41	{ID}	730,000	41	29,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	110	0.15	330 {(DD)}	0.06	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	1,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	{NLL}	7,000	{NLL}	350,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	800	{NLL}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1 {(M)}	58	0.17	12,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	{NLL}	10,000 {(C)}	{NLL}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	310 {(C)}	120 {(X)}	310 {(C)}	310 {(C)}	21,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	1,000,000 {(D)}	{NA}	310,000 {(DD)}	340	290,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	820	1.1	2,400	39	78,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	{NLL}	8,000	{NLL}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	1.7	{ID}	{ID}	2,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	740 {(C)}	2.2	740 {(C)}	320	1,500,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	790 {(C)}	{NA}	790 {(C)}	790 {(C)}	1,500,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-38-12-22 1 - 2 10/30/13	RFI-38-12-23 1.2 - 2 10/30/13	RFI-38-12-24 1 - 2 10/30/13	RFI-38-12-25 0.8 - 2 10/30/13	RFI-38-12-26 0.5 - 2 10/30/13	RFI-38-12-27 0.5 - 2 10/30/13	RFI-38-12-28 0.5 - 2 10/30/13	RFI-38-12-29 0.5 - 2 10/30/13	RFI-38-12-30 0.5 - 2 10/30/13
Di-n-Butylphthalate	mg/kg	760	760 {(C)}	11	760 {(C)}	760 {(C)}	1,500,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	140,000 {(C)}	{ID}	20,000	140,000 {(C)}	14,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	730	5.5	130,000	730	4,100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	890	5.3	87,000	890	4,100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	8.2	0.35	37	1.8	8,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	350 {(C)}	0.091	350 {(C)}	72	180,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	720 {(C)}	{ID}	720 {(C)}	320	5,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	2,400 {(C)}	26 {(X)}	2,400 {(C)}	62	8,200,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	220	3.6 {(X)}	340	0.33 {(M)}	21,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	{NA}	5.4	0.33 {(M)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	700	{NA}	7,800	22	2,800,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	4.3	26.5 {(G,X)}	320	0.022	130,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	1,100	2.1	5,200	160	2,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	12,000 {(C)}	9	12,000 {(C,DD)}	260	18,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	480	{ID}	84,000	480	2,900,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB																	
Aroclor-1016	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH																	
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																	
Antimony	mg/kg	{NA}	49,000	94 {(X)}	670	4.3	5,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	2,000	4.6	37	4.6	910	5.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	1,000,000	858 {(G)}	130,000	1,300	150,000	75	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,000,000	408 {(G)}	1,600	51	590	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	230,000	5.74 {(G,X)}	2,100	6	2,200	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	{NA}	1,000,000 {(D)}	4,960,000	1,000,000 {(D)}	1,000,000 {(D)}	150,000	18	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	48,000	2	9,000	2	5,900	6.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	1,000,000	124 {(G)}	73,000	5,800	59,000	32	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	0.1	250	4	250	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	- -	5,450 {(G,X)}	900	700	44,000	21	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	180,000	95.3 {(G,X)}	90,000	1	1,500	440	**594**	**699**	**1,140**	**688**	**2,070**	**1,230**	**1,410**	**1,700**	**881**
Mercury	mg/kg	{NA}	47	0.05 {(M)}	580	1.7	8,800	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	1,000,000	129 {(G)}	150,000	100	16,000	20	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	78,000	0.4	9,600	4	59,000	0.41	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	200,000	0.1 {(M)}	9,000	13	2,900	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	15,000	4.2 {(X)}	130	2.3	5,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	1,000,000	430	5,500	990	- -	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	1,000,000	280 {(G)}	630,000	5,000	- -	47	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																	
Percent Moisture	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	- -	- -	- -	- -	- -	- -	- -	95	87	87	87	86	87	87	91	89

Notes:
Bold and highlighted cells indicate an exceedance of SDBL and one or more criteria.

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-38-12-31 1 - 2 10/30/13	RFI-38-12-32 0.5 - 2 10/30/13	RFI-38-12-33 0.5 - 2 10/30/13	RFI-38-12-34 1 - 2 10/30/13	RFI-38-12-35 0.5 - 2 10/30/13	RFI-38-12-36 0.5 - 2 10/30/13	RFI-38-12-37 0.5 - 2 10/30/13	RFI-BG-08 0 - 2 08/29/02	RFI-BG-08-2 0.6 - 2 10/12/12	RFI-BG-09 0 - 2 08/29/02	RFI-BG-09-2 0.5 - 1 10/11/12
VOC																			
1,1,1,2-Tetrachloroethane	mg/kg	440	440 {(C)}	{ID}	440 {(C)}	6.4	530,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	<0.1
1,1,1-Trichloroethane	mg/kg	460	460 {(C)}	1.8	460 {(C)}	4	29,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.07	NA	<0.07
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6 {(X)}	240	0.7	68,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.07	NA	<0.07
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	550 {(C)}	1.7	550 {(C)}	550 {(C)}	2,300,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	420	6.6 {(X)}	840	0.1	250,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.07	NA	<0.07
1,1-Dichloroethane	mg/kg	890	890 {(C)}	15	890 {(C)}	50	15,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.07	NA	<0.07
1,1-Dichloroethene	mg/kg	570	220	2.6	570 {(C)}	0.14	78,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.07	NA	<0.07
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.46	NA	<0.49
1,2,3-Trichloropropane	mg/kg	830	830 {(C)}	{NA}	830 {(C)}	2.4	8,800	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	<0.1
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	<0.1
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.46	NA	<0.49
1,2,4-Trimethylbenzene	mg/kg	110	110 {(C)}	0.57	110 {(C)}	2.1	36,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	<0.1
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.4	NA	<0.4
1,2-Dibromoethane	mg/kg	890	0.5	0.11 {(X)}	0.43	0.02 {(M)}	18,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	**<0.03 M**	NA	**<0.03 M**
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	<0.1
1,2-Dichloroethane	mg/kg	1,200	380	7.2 {(X)}	420	0.1	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.07	NA	<0.07
1,2-Dichloropropane	mg/kg	550	320	4.6 {(X)}	550 {(C)}	0.1	120,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.07	NA	<0.07
1,3,5-Trimethylbenzene	mg/kg	94	94 {(C)}	1.1	94 {(C)}	1.8	36,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	<0.1
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	<0.1
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	<0.1
2-Butanone	mg/kg	27,000	27,000 {(C)}	44	27,000 {(C,DD)}	760	29,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<1.1	NA	<1.1
2-Hexanone	mg/kg	2,500	2,500 {(C)}	{ID}	2,500 {(C)}	58	1,200,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<4	NA	<4
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.46	NA	<0.49
4-Methyl-2-pentanone	mg/kg	2,700	2,700 {(C)}	{ID}	2,700 {(C)}	100	60,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<4	NA	<4
Acetone	mg/kg	110,000	110,000 {(C)}	34	73,000	42	170,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1
Acrylonitrile	mg/kg	8,300	280	0.1 {(M)}	74	0.22	58,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	<0.1
Benzene	mg/kg	400	220	4 {(X)}	400 {(C)}	0.1	470,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.07	NA	<0.07
Bromobenzene	mg/kg	760	360	{NA}	760 {(C)}	1.5	240,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	<0.1
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	<0.1
Bromodichloromethane	mg/kg	1,500	280	{ID}	490	1.6 {(W)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	<0.1
Bromoform	mg/kg	870	870 {(C)}	{ID}	870 {(C)}	1.6 {(W)}	3,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	<0.1
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.3	NA	<0.3
Carbon Disulfide	mg/kg	280	280 {(C)}	{ID}	280 {(C,DD)}	46	21,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.4	NA	<0.4
Carbon Tetrachloride	mg/kg	390	92	0.9 {(X)}	390 {(C)}	0.1	170,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.07	NA	<0.07
Chlorobenzene	mg/kg	260	260 {(C)}	0.5	260 {(C)}	2	2,100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.07	NA	<0.07
Chloroethane	mg/kg	950	950 {(C)}	22 {(X)}	950 {(C)}	34	290,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.4	NA	<0.4
Chloroform	mg/kg	1,500	1,500 {(C)}	7	1,500 {(C)}	1.6 {(W)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.07	NA	<0.07
Chloromethane	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	22	2,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.4	NA	<0.4
cis-1,2-Dichloroethene	mg/kg	640	640 {(C)}	12	640 {(C)}	1.4	1,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.07	NA	<0.07
cis-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.07	NA	<0.07
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	360	{ID}	500	1.6 {(W)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	<0.1
Dibromomethane	mg/kg	2,000	2,000 {(C)}	{NA}	2,000 {(C)}	4.6	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.4	NA	<0.4
Dichlorodifluoromethane	mg/kg	1,000	1,000 {(C)}	{ID}	1,000 {(C)}	270	1,500,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.4	NA	<0.4
Diethyl ether	mg/kg	7,400	7,400 {(C)}	{ID}	7,400 {(C)}	0.2	350,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	**<0.3**	NA	**<0.3**
Ethylbenzene	mg/kg	140	140 {(C)}	0.36	140 {(C)}	1.5	13,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.07	NA	<0.07
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.4	NA	<0.4
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	<0.1
Isopropylbenzene	mg/kg	390	390 {(C)}	3.2	390 {(C)}	260	2,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.4	NA	<0.4
m&p-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	<0.1
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	5,900 {(C)}	140 {(X)}	5,900 {(C)}	0.8	88,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.3	NA	<0.3
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	2,300 {(C)}	30 {(X)}	2,300 {(C)}	0.1	8,300,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	<0.1
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.46	NA	<0.49
n-Butylbenzene	mg/kg	10,000	120	{ID}	8,000	4.6	880,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.07	NA	<0.07
n-Propylbenzene	mg/kg	10,000	300	{ID}	8,000	4.6	590,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	<0.1
o-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.07	NA	<0.07
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	<0.1
sec-Butylbenzene	mg/kg	10,000	88	{ID}	8,000	4.6	180,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.07	NA	<0.07
Styrene	mg/kg	520	270	2.1 {(X)}	520 {(C)}	2.7	6,900,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.07	NA	<0.07
tert-Butylbenzene	mg/kg	10,000	180	{ID}	8,000	4.6	290,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.07	NA	<0.07

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-38-12-31 1 - 2 10/30/13	RFI-38-12-32 0.5 - 2 10/30/13	RFI-38-12-33 0.5 - 2 10/30/13	RFI-38-12-34 1 - 2 10/30/13	RFI-38-12-35 0.5 - 2 10/30/13	RFI-38-12-36 0.5 - 2 10/30/13	RFI-38-12-37 0.5 - 2 10/30/13	RFI-BG-08 0 - 2 08/29/02	RFI-BG-08-2 0.6 - 2 10/12/12	RFI-BG-09 0 - 2 08/29/02	RFI-BG-09-2 0.5 - 1 10/11/12
Tetrachloroethene	mg/kg	88	88 {(C)}	1.2 {(X)}	88 {(C)}	0.1	1,200,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.07	NA	<0.07
Tetrahydrofuran	mg/kg	120,000	32,000	220 {(X)}	9,500	5.4	170,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1
Toluene	mg/kg	250	250 {(C)}	5.4	250 {(C)}	16	12,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	<0.1
trans-1,2-Dichloroethene	mg/kg	1,400	1,400 {(C)}	30 {(X)}	1,400 {(C)}	2	2,100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.07	NA	<0.07
trans-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.07	NA	<0.07
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.07	NA	<0.07
Trichloroethene	mg/kg	500	440	4 {(X)}	500 {(C,DD)}	0.1	59,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.07	NA	<0.07
Trichlorofluoromethane	mg/kg	560	560 {(C)}	{NA}	560 {(C)}	150	1,700,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	<0.1
Vinyl Chloride	mg/kg	490	20	0.26 {(X)}	34	0.04	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	**<0.07**	NA	**<0.07**
SVOC																			
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	**<0.33**	NA	**<0.33**
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
2,4,5-Trichlorophenol	mg/kg	{NA}	9,100	{NA}	73,000	110	10,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
2,4,6-Trichlorophenol	mg/kg	{NA}	200	0.33 {(M)}	3,300	9.4	1,300,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
2,4-Dichlorophenol	mg/kg	1,800	960	0.33 {(M)}	1,800 {(C,DD)}	4.2	2,300,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
2,4-Dimethylphenol	mg/kg	{NA}	10,000	7.6	36,000	20	2,100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.83	NA	<0.83
2,4-Dinitrotoluene	mg/kg	{NA}	170	{NA}	220	0.64	20,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
2-Chloronaphthalene	mg/kg	{NA}	2,300	{NA}	180,000	1,800	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
2-Chlorophenol	mg/kg	19,000	1,900	0.36	4,500	2.6	530,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
2-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.83	NA	<0.83
2-Nitrophenol	mg/kg	{NA}	1,600	{ID}	2,000	1.2	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
3&4-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
3,3'-Dichlorobenzidine	mg/kg	{NA}	4.6	2 {(M)}	30	2 {(M)}	8,200	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	<2
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.83	NA	<0.83
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.83	NA	<0.83
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
4-Chloro-3-Methylphenol	mg/kg	{NA}	3,000	0.28	15,000	16	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.28	NA	<0.28
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.83	NA	<0.83
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.83	NA	<0.83
Acenaphthene	mg/kg	{NA}	970	8.7	130,000	880	6,200,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Acenaphthylene	mg/kg	{NA}	440	{ID}	5,200	17	1,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Acetophenone	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	88	14,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	41	{ID}	730,000	41	29,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Atrazine	mg/kg	{NA}	110	0.15	330 {(DD)}	0.06	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	1,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	{NLL}	7,000	{NLL}	350,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	800	{NLL}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1 {(M)}	58	0.17	12,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	**<0.33**	NA	**<0.33**
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	{NLL}	10,000 {(C)}	{NLL}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Butylbenzylphthalate	mg/kg	310	310 {(C)}	120 {(X)}	310 {(C)}	310 {(C)}	21,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Caprolactam	mg/kg	{NA}	1,000,000 {(D)}	{NA}	310,000 {(DD)}	340	290,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	820	1.1	2,400	39	78,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	{NLL}	8,000	{NLL}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Dibenzofuran	mg/kg	{NA}	{ID}	1.7	{ID}	{ID}	2,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Diethylphthalate	mg/kg	740	740 {(C)}	2.2	740 {(C)}	320	1,500,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Dimethylphthalate	mg/kg	790	790 {(C)}	{NA}	790 {(C)}	790 {(C)}	1,500,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-38-12-31 1 - 2 10/30/13	RFI-38-12-32 0.5 - 2 10/30/13	RFI-38-12-33 0.5 - 2 10/30/13	RFI-38-12-34 1 - 2 10/30/13	RFI-38-12-35 0.5 - 2 10/30/13	RFI-38-12-36 0.5 - 2 10/30/13	RFI-38-12-37 0.5 - 2 10/30/13	RFI-BG-08 0 - 2 08/29/02	RFI-BG-08-2 0.6 - 2 10/12/12	RFI-BG-09 0 - 2 08/29/02	RFI-BG-09-2 0.5 - 1 10/11/12
Di-n-Butylphthalate	mg/kg	760	760 {(C)}	11	760 {(C)}	760 {(C)}	1,500,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Di-n-Octylphthalate	mg/kg	140,000	140,000 {(C)}	{ID}	20,000	140,000 {(C)}	14,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Fluoranthene	mg/kg	{NA}	730	5.5	130,000	730	4,100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Fluorene	mg/kg	{NA}	890	5.3	87,000	890	4,100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Hexachlorobenzene	mg/kg	{NA}	8.2	0.35	37	1.8	8,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Hexachlorobutadiene	mg/kg	350	350 {(C)}	0.091	350 {(C)}	72	180,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	**<0.33**	NA	**<0.33**
Hexachlorocyclopentadiene	mg/kg	720	720 {(C)}	{ID}	720 {(C)}	320	5,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Isophorone	mg/kg	2,400	2,400 {(C)}	26 {(X)}	2,400 {(C)}	62	8,200,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Methylphenols, Total	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Nitrobenzene	mg/kg	490	220	3.6 {(X)}	340	0.33 {(M)}	21,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	{NA}	5.4	0.33 {(M)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
N-Nitrosodiphenylamine	mg/kg	{NA}	700	{NA}	7,800	22	2,800,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Pentachlorophenol	mg/kg	{NA}	4.3	26.5 {(G,X)}	320	0.022	130,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	**<0.33**	NA	**<0.33**
Phenanthrene	mg/kg	{NA}	1,100	2.1	5,200	160	2,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Phenol	mg/kg	12,000	12,000 {(C)}	9	12,000 {(C,DD)}	260	18,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Pyrene	mg/kg	{NA}	480	{ID}	84,000	480	2,900,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
PCB																			
Aroclor-1016	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Aroclor-1221	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Aroclor-1232	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Aroclor-1242	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Aroclor-1248	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Aroclor-1254	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Aroclor-1260	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	<0.33
Total PCBs	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH																			
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																			
Antimony	mg/kg	{NA}	49,000	94 {(X)}	670	4.3	5,900	{NA}	NA	NA	NA	NA	NA	NA	NA	0.027 J	<0.5	0.013 J	<0.5
Arsenic	mg/kg	{NA}	2,000	4.6	37	4.6	910	5.8	NA	NA	NA	NA	NA	NA	NA	**8.5 J**	3.01	**6.5 J**	1.05
Barium	mg/kg	{NA}	1,000,000	858 {(G)}	130,000	1,300	150,000	75	NA	NA	NA	NA	NA	NA	NA	**80 J**	35.1	60 J	**89.6**
Beryllium	mg/kg	{NA}	1,000,000	408 {(G)}	1,600	51	590	{NA}	NA	NA	NA	NA	NA	NA	NA	0.42	0.32	0.47	0.64
Cadmium	mg/kg	{NA}	230,000	5.74 {(G,X)}	2,100	6	2,200	1.2	NA	NA	NA	NA	NA	NA	NA	0.34 J	<0.2	0.33 J	<0.2
Chromium Total	mg/kg	{NA}	1,000,000 {(D)}	4,960,000	1,000,000 {(D)}	1,000,000 {(D)}	150,000	18	NA	NA	NA	NA	NA	NA	NA	16 J	4.83	16 J	6.71
Cobalt	mg/kg	{NA}	48,000	2	9,000	2	5,900	6.8	NA	NA	NA	NA	NA	NA	NA	**6.7 J**	**11.3**	**6.4 J**	**11.6**
Copper	mg/kg	{NA}	1,000,000	124 {(G)}	73,000	5,800	59,000	32	NA	NA	NA	NA	NA	NA	NA	13 J	5.23	17 J	5.35
Cyanide (total)	mg/kg	{NA}	250	0.1	250	4	250	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	<0.1
Lead	mg/kg	{NA}	- -	5,450 {(G,X)}	900	700	44,000	21	NA	NA	NA	NA	NA	NA	NA	**30 J**	9.49	**45 J**	11.5
Manganese	mg/kg	{NA}	180,000	95.3 {(G,X)}	90,000	1	1,500	440	**515**	**2,450**	**1,150**	**846**	**897**	**1,120**	**2,040**	**500**	**481**	**380**	**537**
Mercury	mg/kg	{NA}	47	0.05 {(M)}	580	1.7	8,800	0.13	NA	NA	NA	NA	NA	NA	NA	**0.0556 J**	<0.05	**0.0761**	<0.05
Nickel	mg/kg	{NA}	1,000,000	129 {(G)}	150,000	100	16,000	20	NA	NA	NA	NA	NA	NA	NA	14 J	15.6	19 J	16.5
Selenium	mg/kg	{NA}	78,000	0.4	9,600	4	59,000	0.41	NA	NA	NA	NA	NA	NA	NA	0.039 J	<0.4	0.051 J	<0.4
Silver	mg/kg	{NA}	200,000	0.1 {(M)}	9,000	13	2,900	1	NA	NA	NA	NA	NA	NA	NA	0.094 J	<0.1	0.086 J	<0.1
Thallium	mg/kg	{NA}	15,000	4.2 {(X)}	130	2.3	5,900	{NA}	NA	NA	NA	NA	NA	NA	NA	0.15 J	<0.2	0.16 J	<0.2
Vanadium	mg/kg	{NA}	1,000,000	430	5,500	990	- -	{NA}	NA	NA	NA	NA	NA	NA	NA	24 J	NA	22 J	NA
Zinc	mg/kg	{NA}	1,000,000	280 {(G)}	630,000	5,000	- -	47	NA	NA	NA	NA	NA	NA	NA	**85 J**	12.3	**87 J**	18.1
Miscellaneous																			
Percent Moisture	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	- -	- -	- -	- -	- -	- -	- -	89	90	88	88	92	85	87	92.4	82	89.4	84

Notes:
Bold and highlighted cells indicate an exceedance of SDBL and one or more criteria.

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-BG-10 0 - 2 08/29/02	RFI-BG-10-2 0 - 2 03/22/13	RFI-BG-10-2 0.6 - 1 10/11/12	RFI-BG-10-2 3 - 5 03/22/13	RFI-BG-10-3 0 - 2 03/22/13	RFI-BG-10-3 3 - 5 03/22/13	RFI-BG-10-4 0 - 2 03/22/13	RFI-BG-10-4 3 - 5 03/22/13	RFI-BG-10-5 0 - 2 03/22/13	RFI-BG-10-5 3 - 5 03/22/13	RFI-BG-10-6 0 - 2 03/22/13
VOC																			
1,1,1,2-Tetrachloroethane	mg/kg	440	440 {(C)}	{ID}	440 {(C)}	6.4	530,000	{NA}	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	460 {(C)}	1.8	460 {(C)}	4	29,000,000	{NA}	NA	NA	<0.07	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6 {(X)}	240	0.7	68,000	{NA}	NA	NA	<0.07	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	550 {(C)}	1.7	550 {(C)}	550 {(C)}	2,300,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	420	6.6 {(X)}	840	0.1	250,000	{NA}	NA	NA	<0.07	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	890 {(C)}	15	890 {(C)}	50	15,000,000	{NA}	NA	NA	<0.07	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	220	2.6	570 {(C)}	0.14	78,000	{NA}	NA	NA	<0.07	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.43	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	830 {(C)}	{NA}	830 {(C)}	2.4	8,800	{NA}	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	{NA}	NA	NA	<0.43	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	110 {(C)}	0.57	110 {(C)}	2.1	36,000,000	{NA}	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.3	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.5	0.11 {(X)}	0.43	0.02 {(M)}	18,000	{NA}	NA	NA	**<0.03 M**	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	{NA}	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	380	7.2 {(X)}	420	0.1	150,000	{NA}	NA	NA	<0.07	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	320	4.6 {(X)}	550 {(C)}	0.1	120,000	{NA}	NA	NA	<0.07	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	94 {(C)}	1.1	94 {(C)}	1.8	36,000,000	{NA}	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	{NA}	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	{NA}	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	27,000 {(C)}	44	27,000 {(C,DD)}	760	29,000,000	{NA}	NA	NA	<0.98	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	2,500 {(C)}	{ID}	2,500 {(C)}	58	1,200,000	{NA}	NA	NA	<3	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	{NA}	NA	NA	<0.43	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	2,700 {(C)}	{ID}	2,700 {(C)}	100	60,000,000	{NA}	NA	NA	<3	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	110,000 {(C)}	34	73,000	42	170,000,000	{NA}	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	8,300	280	0.1 {(M)}	74	0.22	58,000	{NA}	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	220	4 {(X)}	400 {(C)}	0.1	470,000	{NA}	NA	NA	<0.07	NA	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	mg/kg	760	360	{NA}	760 {(C)}	1.5	240,000	{NA}	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	280	{ID}	490	1.6 {(W)}	110,000	{NA}	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	870 {(C)}	{ID}	870 {(C)}	1.6 {(W)}	3,600,000	{NA}	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	{NA}	NA	NA	<0.3	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	280 {(C)}	{ID}	280 {(C,DD)}	46	21,000,000	{NA}	NA	NA	<0.3	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	92	0.9 {(X)}	390 {(C)}	0.1	170,000	{NA}	NA	NA	<0.07	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	260 {(C)}	0.5	260 {(C)}	2	2,100,000	{NA}	NA	NA	<0.07	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	950 {(C)}	22 {(X)}	950 {(C)}	34	290,000,000	{NA}	NA	NA	<0.3	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	1,500 {(C)}	7	1,500 {(C)}	1.6 {(W)}	1,600,000	{NA}	NA	NA	<0.07	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	22	2,600,000	{NA}	NA	NA	<0.3	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	640 {(C)}	12	640 {(C)}	1.4	1,000,000	{NA}	NA	NA	<0.07	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	- -	NA	NA	<0.07	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	360	{ID}	500	1.6 {(W)}	160,000	{NA}	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	mg/kg	2,000	2,000 {(C)}	{NA}	2,000 {(C)}	4.6	{ID}	{NA}	NA	NA	<0.3	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	1,000 {(C)}	{ID}	1,000 {(C)}	270	1,500,000,000	{NA}	NA	NA	<0.3	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	7,400 {(C)}	{ID}	7,400 {(C)}	0.2	350,000,000	{NA}	NA	NA	**<0.3**	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	140 {(C)}	0.36	140 {(C)}	1.5	13,000,000	{NA}	NA	NA	<0.07	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	{NA}	NA	NA	<0.4	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	390 {(C)}	3.2	390 {(C)}	260	2,600,000	{NA}	NA	NA	<0.3	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	- -	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	5,900 {(C)}	140 {(X)}	5,900 {(C)}	0.8	88,000,000	{NA}	NA	NA	<0.3	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	2,300 {(C)}	30 {(X)}	2,300 {(C)}	0.1	8,300,000	{NA}	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	{NA}	NA	NA	<0.43	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	120	{ID}	8,000	4.6	880,000	{NA}	NA	NA	<0.07	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	300	{ID}	8,000	4.6	590,000	{NA}	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	- -	NA	NA	<0.07	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	88	{ID}	8,000	4.6	180,000	{NA}	NA	NA	<0.07	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	270	2.1 {(X)}	520 {(C)}	2.7	6,900,000	{NA}	NA	NA	<0.07	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	mg/kg	10,000	180	{ID}	8,000	4.6	290,000	{NA}	NA	NA	<0.07	NA	NA	NA	NA	NA	NA	NA	NA

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-BG-10 0 - 2 08/29/02	RFI-BG-10-2 0 - 2 03/22/13	RFI-BG-10-2 0.6 - 1 10/11/12	RFI-BG-10-2 3 - 5 03/22/13	RFI-BG-10-3 0 - 2 03/22/13	RFI-BG-10-3 3 - 5 03/22/13	RFI-BG-10-4 0 - 2 03/22/13	RFI-BG-10-4 3 - 5 03/22/13	RFI-BG-10-5 0 - 2 03/22/13	RFI-BG-10-5 3 - 5 03/22/13	RFI-BG-10-6 0 - 2 03/22/13
Tetrachloroethene	mg/kg	88	88 {(C)}	1.2 {(X)}	88 {(C)}	0.1	1,200,000	{NA}	NA	NA	<0.07	NA	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	mg/kg	120,000	32,000	220 {(X)}	9,500	5.4	170,000,000	{NA}	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	250 {(C)}	5.4	250 {(C)}	16	12,000,000	{NA}	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	1,400 {(C)}	30 {(X)}	1,400 {(C)}	2	2,100,000	{NA}	NA	NA	<0.07	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	- -	NA	NA	<0.07	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.07	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	440	4 {(X)}	500 {(C,DD)}	0.1	59,000	{NA}	NA	NA	<0.07	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	560 {(C)}	{NA}	560 {(C)}	150	1,700,000,000	{NA}	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	20	0.26 {(X)}	34	0.04	890,000	{NA}	NA	NA	**<0.07**	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																			
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	{NA}	NA	NA	**<0.33**	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	9,100	{NA}	73,000	110	10,000,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	200	0.33 {(M)}	3,300	9.4	1,300,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	960	0.33 {(M)}	1,800 {(C,DD)}	4.2	2,300,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	10,000	7.6	36,000	20	2,100,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.83	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	170	{NA}	220	0.64	20,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	2,300	{NA}	180,000	1,800	{ID}	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	1,900	0.36	4,500	2.6	530,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	- -	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.83	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	1,600	{ID}	2,000	1.2	{ID}	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	- -	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	4.6	2 {(M)}	30	2 {(M)}	8,200	{NA}	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.83	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.83	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	3,000	0.28	15,000	16	{ID}	{NA}	NA	NA	<0.28	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.83	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.83	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	970	8.7	130,000	880	6,200,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	440	{ID}	5,200	17	1,000,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	88	14,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	41	{ID}	730,000	41	29,000,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	110	0.15	330 {(DD)}	0.06	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	1,900	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	{NLL}	7,000	{NLL}	350,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	800	{NLL}	{ID}	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1 {(M)}	58	0.17	12,000	{NA}	NA	NA	**<0.33**	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	{NLL}	10,000 {(C)}	{NLL}	890,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	310 {(C)}	120 {(X)}	310 {(C)}	310 {(C)}	21,000,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	1,000,000 {(D)}	{NA}	310,000 {(DD)}	340	290,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	820	1.1	2,400	39	78,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	{NLL}	8,000	{NLL}	{ID}	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	{ID}	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	1.7	{ID}	{ID}	2,900	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	740 {(C)}	2.2	740 {(C)}	320	1,500,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	790 {(C)}	{NA}	790 {(C)}	790 {(C)}	1,500,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-BG-10 0 - 2 08/29/02	RFI-BG-10-2 0 - 2 03/22/13	RFI-BG-10-2 0.6 - 1 10/11/12	RFI-BG-10-2 3 - 5 03/22/13	RFI-BG-10-3 0 - 2 03/22/13	RFI-BG-10-3 3 - 5 03/22/13	RFI-BG-10-4 0 - 2 03/22/13	RFI-BG-10-4 3 - 5 03/22/13	RFI-BG-10-5 0 - 2 03/22/13	RFI-BG-10-5 3 - 5 03/22/13	RFI-BG-10-6 0 - 2 03/22/13
Di-n-Butylphthalate	mg/kg	760	760 {(C)}	11	760 {(C)}	760 {(C)}	1,500,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	140,000 {(C)}	{ID}	20,000	140,000 {(C)}	14,000,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	730	5.5	130,000	730	4,100,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	890	5.3	87,000	890	4,100,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	8.2	0.35	37	1.8	8,500	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	350 {(C)}	0.091	350 {(C)}	72	180,000	{NA}	NA	NA	**<0.33**	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	720 {(C)}	{ID}	720 {(C)}	320	5,900	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	2,400 {(C)}	26 {(X)}	2,400 {(C)}	62	8,200,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	220	3.6 {(X)}	340	0.33 {(M)}	21,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	{NA}	5.4	0.33 {(M)}	2,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	700	{NA}	7,800	22	2,800,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	4.3	26.5 {(G,X)}	320	0.022	130,000	{NA}	NA	NA	**<0.33**	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	1,100	2.1	5,200	160	2,900	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	12,000 {(C)}	9	12,000 {(C,DD)}	260	18,000,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	480	{ID}	84,000	480	2,900,000	{NA}	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
PCB																			
Aroclor-1016	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH																			
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																			
Antimony	mg/kg	{NA}	49,000	94 {(X)}	670	4.3	5,900	{NA}	0.042 J	NA	<0.5	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	2,000	4.6	37	4.6	910	5.8	**5.5 J**	NA	1.29	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	1,000,000	858 {(G)}	130,000	1,300	150,000	75	**150 J**	NA	23.1	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,000,000	408 {(G)}	1,600	51	590	{NA}	0.89	NA	<0.2	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	230,000	5.74 {(G,X)}	2,100	6	2,200	1.2	1.1	NA	<0.2	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	{NA}	1,000,000 {(D)}	4,960,000	1,000,000 {(D)}	1,000,000 {(D)}	150,000	18	**47 J**	NA	11.7	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	48,000	2	9,000	2	5,900	6.8	**3.8 J**	NA	**11.5**	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	1,000,000	124 {(G)}	73,000	5,800	59,000	32	29 J	NA	9	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	0.1	250	4	250	0.39 {(total)}	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	- -	5,450 {(G,X)}	900	700	44,000	21	**190 J**	NA	8.36	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	180,000	95.3 {(G,X)}	90,000	1	1,500	440	**2,100**	**1,470**	**366**	**527**	**300**	**472**	**708**	**128**	**447**	**646**	**284**
Mercury	mg/kg	{NA}	47	0.05 {(M)}	580	1.7	8,800	0.13	0.0265 J	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	1,000,000	129 {(G)}	150,000	100	16,000	20	17 J	NA	9.25	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	78,000	0.4	9,600	4	59,000	0.41	0.12 J	NA	<0.4	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	200,000	0.1 {(M)}	9,000	13	2,900	1	**0.26 J**	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	15,000	4.2 {(X)}	130	2.3	5,900	{NA}	0.1 J	NA	<0.2	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	1,000,000	430	5,500	990	- -	{NA}	14 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	1,000,000	280 {(G)}	630,000	5,000	- -	47	**720 J**	NA	14.9	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																			
Percent Moisture	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	- -	- -	- -	- -	- -	- -	- -	93.5	92	88	85	94	92	89	77	88	90	89

Notes:
Bold and highlighted cells indicate an exceedance of SDBL and one or more criteria.

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-BG-10-6 3 - 5 03/22/13	RFI-BG-10-8 0.3 - 2 10/30/13	RFI-BG-10-9 0.3 - 2 10/30/13	SB-38-01 1 - 2 09/05/13	SB-38-02 2 - 3 09/05/13	SB-38-03 6 - 7 09/05/13	SB-38-04 2 - 3 09/05/13	SB-38-05 3 - 3.5 09/05/13	SB-38-06 7 - 9 09/05/13
VOC																	
1,1,1,2-Tetrachloroethane	mg/kg	440	440 {(C)}	{ID}	440 {(C)}	6.4	530,000	{NA}	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-Trichloroethane	mg/kg	460	460 {(C)}	1.8	460 {(C)}	4	29,000,000	{NA}	NA	NA	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
1,1,2,2-Tetrachloroethane	mg/kg	870	94	1.6 {(X)}	240	0.7	68,000	{NA}	NA	NA	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	550 {(C)}	1.7	550 {(C)}	550 {(C)}	2,300,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	420	6.6 {(X)}	840	0.1	250,000	{NA}	NA	NA	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
1,1-Dichloroethane	mg/kg	890	890 {(C)}	15	890 {(C)}	50	15,000,000	{NA}	NA	NA	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
1,1-Dichloroethene	mg/kg	570	220	2.6	570 {(C)}	0.14	78,000	{NA}	NA	NA	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	<0.38	<0.39	<0.38	<0.41	<0.41	<0.47
1,2,3-Trichloropropane	mg/kg	830	830 {(C)}	{NA}	830 {(C)}	2.4	8,800	{NA}	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	{NA}	NA	NA	NA	<0.38	<0.39	<0.38	<0.41	<0.41	<0.47
1,2,4-Trimethylbenzene	mg/kg	110	110 {(C)}	0.57	110 {(C)}	2.1	36,000,000	{NA}	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-Dibromo-3-chloropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	<0.3	<0.3	<0.3	<0.3	<0.3	<0.4
1,2-Dibromoethane	mg/kg	890	0.5	0.11 {(X)}	0.43	0.02 {(M)}	18,000	{NA}	NA	NA	NA	<0.02 M	<0.02 M	<0.02 M	<0.02 M	<0.02 M	**<0.03 M**
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	{NA}	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-Dichloroethane	mg/kg	1,200	380	7.2 {(X)}	420	0.1	150,000	{NA}	NA	NA	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
1,2-Dichloropropane	mg/kg	550	320	4.6 {(X)}	550 {(C)}	0.1	120,000	{NA}	NA	NA	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
1,3,5-Trimethylbenzene	mg/kg	94	94 {(C)}	1.1	94 {(C)}	1.8	36,000,000	{NA}	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	{NA}	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	{NA}	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Butanone	mg/kg	27,000	27,000 {(C)}	44	27,000 {(C,DD)}	760	29,000,000	{NA}	NA	NA	NA	<0.87	<0.88	<0.86	<0.93	<0.93	<1.1
2-Hexanone	mg/kg	2,500	2,500 {(C)}	{ID}	2,500 {(C)}	58	1,200,000	{NA}	NA	NA	NA	<3	<3	<3	<3	<3	<4
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	{NA}	NA	NA	NA	<0.38	<0.39	<0.38	<0.41	<0.41	2.26
4-Methyl-2-pentanone	mg/kg	2,700	2,700 {(C)}	{ID}	2,700 {(C)}	100	60,000,000	{NA}	NA	NA	NA	<3	<3	<3	<3	<3	<4
Acetone	mg/kg	110,000	110,000 {(C)}	34	73,000	42	170,000,000	{NA}	NA	NA	NA	<1	<1	<1	<1	<1	<1
Acrylonitrile	mg/kg	8,300	280	0.1 {(M)}	74	0.22	58,000	{NA}	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzene	mg/kg	400	220	4 {(X)}	400 {(C)}	0.1	470,000	{NA}	NA	NA	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
Bromobenzene	mg/kg	760	360	{NA}	760 {(C)}	1.5	240,000	{NA}	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	mg/kg	1,500	280	{ID}	490	1.6 {(W)}	110,000	{NA}	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	870	870 {(C)}	{ID}	870 {(C)}	1.6 {(W)}	3,600,000	{NA}	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	2,200	1,400	0.7	1,000	0.58	150,000	{NA}	NA	NA	NA	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3
Carbon Disulfide	mg/kg	280	280 {(C)}	{ID}	280 {(C,DD)}	46	21,000,000	{NA}	NA	NA	NA	<0.3	<0.3	<0.3	<0.3	<0.3	<0.4
Carbon Tetrachloride	mg/kg	390	92	0.9 {(X)}	390 {(C)}	0.1	170,000	{NA}	NA	NA	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
Chlorobenzene	mg/kg	260	260 {(C)}	0.5	260 {(C)}	2	2,100,000	{NA}	NA	NA	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
Chloroethane	mg/kg	950	950 {(C)}	22 {(X)}	950 {(C)}	34	290,000,000	{NA}	NA	NA	NA	<0.3	<0.3	<0.3	<0.3	<0.3	<0.4
Chloroform	mg/kg	1,500	1,500 {(C)}	7	1,500 {(C)}	1.6 {(W)}	1,600,000	{NA}	NA	NA	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
Chloromethane	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	22	2,600,000	{NA}	NA	NA	NA	<0.3	<0.3	<0.3	<0.3	<0.3	<0.4
cis-1,2-Dichloroethene	mg/kg	640	640 {(C)}	12	640 {(C)}	1.4	1,000,000	{NA}	NA	NA	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
cis-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	- -	NA	NA	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	360	{ID}	500	1.6 {(W)}	160,000	{NA}	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	2,000	2,000 {(C)}	{NA}	2,000 {(C)}	4.6	{ID}	{NA}	NA	NA	NA	<0.3	<0.3	<0.3	<0.3	<0.3	<0.4
Dichlorodifluoromethane	mg/kg	1,000	1,000 {(C)}	{ID}	1,000 {(C)}	270	1,500,000,000	{NA}	NA	NA	NA	<0.3	<0.3	<0.3	<0.3	<0.3	<0.4
Diethyl ether	mg/kg	7,400	7,400 {(C)}	{ID}	7,400 {(C)}	0.2	350,000,000	{NA}	NA	NA	NA	<0.2	<0.2	<0.2	<0.2	<0.2	**<0.3**
Ethylbenzene	mg/kg	140	140 {(C)}	0.36	140 {(C)}	1.5	13,000,000	{NA}	NA	NA	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	{NA}	NA	NA	NA	<0.3	<0.4	<0.3	<0.4	<0.4	<0.4
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isopropylbenzene	mg/kg	390	390 {(C)}	3.2	390 {(C)}	260	2,600,000	{NA}	NA	NA	NA	<0.3	<0.3	<0.3	<0.3	<0.3	<0.4
m&p-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	- -	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	5,900 {(C)}	140 {(X)}	5,900 {(C)}	0.8	88,000,000	{NA}	NA	NA	NA	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	2,300 {(C)}	30 {(X)}	2,300 {(C)}	0.1	8,300,000	{NA}	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	{NA}	NA	NA	NA	<0.38	<0.39	<0.38	<0.41	<0.41	**1.95**
n-Butylbenzene	mg/kg	10,000	120	{ID}	8,000	4.6	880,000	{NA}	NA	NA	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
n-Propylbenzene	mg/kg	10,000	300	{ID}	8,000	4.6	590,000	{NA}	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o-Xylene	mg/kg	150	150 {(C)}	0.82	150 {(C)}	5.6	130,000,000	- -	NA	NA	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-Butylbenzene	mg/kg	10,000	88	{ID}	8,000	4.6	180,000	{NA}	NA	NA	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
Styrene	mg/kg	520	270	2.1 {(X)}	520 {(C)}	2.7	6,900,000	{NA}	NA	NA	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
tert-Butylbenzene	mg/kg	10,000	180	{ID}	8,000	4.6	290,000	{NA}	NA	NA	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-BG-10-6 3 - 5 03/22/13	RFI-BG-10-8 0.3 - 2 10/30/13	RFI-BG-10-9 0.3 - 2 10/30/13	SB-38-01 1 - 2 09/05/13	SB-38-02 2 - 3 09/05/13	SB-38-03 6 - 7 09/05/13	SB-38-04 2 - 3 09/05/13	SB-38-05 3 - 3.5 09/05/13	SB-38-06 7 - 9 09/05/13
Tetrachloroethene	mg/kg	88	88 {(C)}	1.2 {(X)}	88 {(C)}	0.1	1,200,000	{NA}	NA	NA	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
Tetrahydrofuran	mg/kg	120,000	32,000	220 {(X)}	9,500	5.4	170,000,000	{NA}	NA	NA	NA	<1	<1	<1	<1	<1	<1
Toluene	mg/kg	250	250 {(C)}	5.4	250 {(C)}	16	12,000,000	{NA}	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,2-Dichloroethene	mg/kg	1,400	1,400 {(C)}	30 {(X)}	1,400 {(C)}	2	2,100,000	{NA}	NA	NA	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
trans-1,3-Dichloropropene	mg/kg	620	110	0.18 {(X)}	240	0.7	590,000	- -	NA	NA	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
Trichloroethene	mg/kg	500	440	4 {(X)}	500 {(C,DD)}	0.1	59,000	{NA}	NA	NA	NA	<0.06	<0.06	<0.06	<0.06	<0.06	<0.07
Trichlorofluoromethane	mg/kg	560	560 {(C)}	{NA}	560 {(C)}	150	1,700,000,000	{NA}	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl Chloride	mg/kg	490	20	0.26 {(X)}	34	0.04	890,000	{NA}	NA	NA	NA	**<0.06**	**<0.06**	**<0.06**	**<0.06**	**<0.06**	**<0.07**
SVOC																	
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {(C)}	5.9 {(X)}	1,100 {(C,DD)}	4.2	11,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	210 {(C)}	0.28	210 {(C)}	14	44,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	51	0.68	170 {(C)}	0.48	88,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	140	0.36	1,900	1.7	570,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	<0.3	<0.3	<0.3	<0.3	<0.3	3.9 Y
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	9,100	{NA}	73,000	110	10,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	200	0.33 {(M)}	3,300	9.4	1,300,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	960	0.33 {(M)}	1,800 {(C,DD)}	4.2	2,300,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	10,000	7.6	36,000	20	2,100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	170	{NA}	220	0.64	20,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	2,300	{NA}	180,000	1,800	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	1,900	0.36	4,500	2.6	530,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	5,500	4.2	26,000	170	290,000	{NA}	NA	NA	NA	<0.3	<0.3	<0.3	<0.3	<0.3	**4.5 Y**
2-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	1,600	{ID}	2,000	1.2	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	4.6	2 {(M)}	30	2 {(M)}	8,200	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	3,000	0.28	15,000	16	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	970	8.7	130,000	880	6,200,000	{NA}	NA	NA	NA	<0.3	<0.3	<0.3	<0.3	<0.3	**16.9 Y**
Acenaphthylene	mg/kg	{NA}	440	{ID}	5,200	17	1,000,000	{NA}	NA	NA	NA	<0.3	<0.3	<0.3	<0.3	<0.3	5.6 Y
Acetophenone	mg/kg	1,100	1,100 {(C)}	{ID}	1,100 {(C)}	88	14,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	41	{ID}	730,000	41	29,000,000	{NA}	NA	NA	NA	<0.3	<0.3	<0.3	0.9	<0.3	**41.9 Y**
Atrazine	mg/kg	{NA}	110	0.15	330 {(DD)}	0.06	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	NA	NA	NA	<0.3	<0.3	<0.3	2.6	<0.3	**122.2 Y**
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	1,900	{NA}	NA	NA	NA	<0.3	<0.3	<0.3	2.5	<0.3	**125.8 Y**
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	NA	NA	NA	<0.3	<0.3	<0.3	4.4 p	<0.3	**218.1 Yp**
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	{NLL}	7,000	{NLL}	350,000	{NA}	NA	NA	NA	<0.3	<0.3	<0.3	1.5	<0.3	53.4 Y
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	{NLL}	800	{NLL}	{ID}	{NA}	NA	NA	NA	<0.3	<0.3	<0.3	4.8 p	<0.3	242.5 Yp
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	110	0.1 {(M)}	58	0.17	12,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	{NLL}	10,000 {(C)}	{NLL}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	310 {(C)}	120 {(X)}	310 {(C)}	310 {(C)}	21,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	1,000,000 {(D)}	{NA}	310,000 {(DD)}	340	290,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	820	1.1	2,400	39	78,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	{NLL}	8,000	{NLL}	{ID}	{NA}	NA	NA	NA	<0.3	<0.3	<0.3	3	<0.3	133.5 Y
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	{NLL}	8	{NLL}	{ID}	{NA}	NA	NA	NA	<0.3	<0.3	<0.3	0.6	<0.3	**26.3 Y**
Dibenzofuran	mg/kg	{NA}	{ID}	1.7	{ID}	{ID}	2,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	740 {(C)}	2.2	740 {(C)}	320	1,500,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	790 {(C)}	{NA}	790 {(C)}	790 {(C)}	1,500,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2C
Summary of Soil Sample Analytical Results
Northern Parcel - Buick City Site
Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT	GCCP	GSIP	NDC	NDWP	NPSIC	SDBL	RFI-BG-10-6 3 - 5 03/22/13	RFI-BG-10-8 0.3 - 2 10/30/13	RFI-BG-10-9 0.3 - 2 10/30/13	SB-38-01 1 - 2 09/05/13	SB-38-02 2 - 3 09/05/13	SB-38-03 6 - 7 09/05/13	SB-38-04 2 - 3 09/05/13	SB-38-05 3 - 3.5 09/05/13	SB-38-06 7 - 9 09/05/13
Di-n-Butylphthalate	mg/kg	760	760 {(C)}	11	760 {(C)}	760 {(C)}	1,500,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	140,000 {(C)}	{ID}	20,000	140,000 {(C)}	14,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	730	5.5	130,000	730	4,100,000	{NA}	NA	NA	NA	<0.3	<0.3	<0.3	**6**	<0.3	**255.6 Y**
Fluorene	mg/kg	{NA}	890	5.3	87,000	890	4,100,000	{NA}	NA	NA	NA	<0.3	<0.3	<0.3	0.5	<0.3	**20.9 Y**
Hexachlorobenzene	mg/kg	{NA}	8.2	0.35	37	1.8	8,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	350 {(C)}	0.091	350 {(C)}	72	180,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	720 {(C)}	{ID}	720 {(C)}	320	5,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	110	1.8 {(X)}	730	1.2	100,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	{NLL}	80	{NLL}	{ID}	{NA}	NA	NA	NA	<0.3	<0.3	<0.3	1.4	<0.3	54.1 Y
Isophorone	mg/kg	2,400	2,400 {(C)}	26 {(X)}	2,400 {(C)}	62	8,200,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	16,000	1 {(M)}	36,000	20	2,900,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	2,100	0.73	52,000	100	88,000	{NA}	NA	NA	NA	<0.3	<0.3	<0.3	<0.3	<0.3	**4.6 Y**
Nitrobenzene	mg/kg	490	220	3.6 {(X)}	340	0.33 {(M)}	21,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	7.2	{NA}	5.4	0.33 {(M)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	700	{NA}	7,800	22	2,800,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	4.3	26.5 {(G,X)}	320	0.022	130,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	1,100	2.1	5,200	160	2,900	{NA}	NA	NA	NA	<0.3	<0.3	<0.3	**5.6**	<0.3	**177.9 Y**
Phenol	mg/kg	12,000	12,000 {(C)}	9	12,000 {(C,DD)}	260	18,000,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	480	{ID}	84,000	480	2,900,000	{NA}	NA	NA	NA	<0.3	<0.3	<0.3	4.6	<0.3	212.7 Y
PCB																	
Aroclor-1016	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Aroclor-1221	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Aroclor-1232	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Aroclor-1242	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Aroclor-1248	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Aroclor-1254	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Aroclor-1260	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	- -	NA	NA	NA	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Total PCBs	mg/kg	{NA}	{NLL}	{NLL}	16 {(T)}	{NLL}	6,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH																	
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	<4	65 Y	11	285 YS	201 YS	570 Y
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	<4	70 Y	21	NA	NA	754 Y
Inorganic																	
Antimony	mg/kg	{NA}	49,000	94 {(X)}	670	4.3	5,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	2,000	4.6	37	4.6	910	5.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	1,000,000	858 {(G)}	130,000	1,300	150,000	75	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,000,000	408 {(G)}	1,600	51	590	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	230,000	5.74 {(G,X)}	2,100	6	2,200	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	{NA}	1,000,000 {(D)}	4,960,000	1,000,000 {(D)}	1,000,000 {(D)}	150,000	18	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	48,000	2	9,000	2	5,900	6.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	1,000,000	124 {(G)}	73,000	5,800	59,000	32	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	0.1	250	4	250	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	- -	5,450 {(G,X)}	900	700	44,000	21	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	180,000	95.3 {(G,X)}	90,000	1	1,500	440	**569**	**631**	**1,240**	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	47	0.05 {(M)}	580	1.7	8,800	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	1,000,000	129 {(G)}	150,000	100	16,000	20	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	78,000	0.4	9,600	4	59,000	0.41	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	200,000	0.1 {(M)}	9,000	13	2,900	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	15,000	4.2 {(X)}	130	2.3	5,900	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	1,000,000	430	5,500	990	- -	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	1,000,000	280 {(G)}	630,000	5,000	- -	47	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																	
Percent Moisture	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	- -	- -	- -	- -	- -	- -	- -	88	90	91	91	94	93	91	91	84

Notes:
Bold and highlighted cells indicate an exceedance of SDBL and one or more criteria.

Appendix P

AOI 40-A Soil Impacts and Remedy Recommendation Memo

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MEMO

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Chris Peters, ARCADIS

From:
Micki M. Maki
Victoria Stacey

Date:
August 29, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
AOI 40-A Soil Investigation Summary and Remedy Recommendation
Buick City Site - Flint, MI

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1. Overview

This summary and remedy recommendation memo has been prepared on behalf of Revitalizing Auto Communities Environmental Response Trust (RACER) by ARCADIS. This memo summarizes investigation activities completed and recommends remedies for the soil impacts at area of interest (AOI) 40-A that is located north/northeast of former Building 40 in the Southend of the Buick City Site (the Site) located in Flint, Michigan (**Figure P-1**).

Light non-aqueous phase liquid (LNAPL) impacts associated with AOI 40-A,-B & 16-C are discussed separately in **Appendix J**. This memos focuses on the surface soil impacts located east of former Building 40, which are not associated with the LNAPL.

2. Soil Data Summary

Select soil samples collected from borings at AOI 40-A exceed groundwater surface water interface protection criteria (GSIP) for ethylbenzene (1.6/0.36 mg/kg), carbazole (10.7/1.1 mg/kg), dibenzofuran (4.93/1.7 mg/kg), fluoranthene (17.9-105/5.5 mg/kg), fluorene (7.1/5.3 mg/kg), naphthalene (0.794-3.54/0.73 mg/kg), phenanthrene (10.298-77.1/2.1 mg/kg), arsenic (5.9-9.3/4.6 mg/kg), cobalt (11/2 mg/kg),

cyanide (0.5-2.6/0.1 mg/kg), mercury (0.143/0.05 mg/kg), selenium (0.43-0.54/0.4 mg/kg) , and zinc (760/280 mg/kg); and non-residential direct contact criteria (NDC) for benzo(a)pyrene (8.7-35.8/8 mg/kg). Additionally, polychlorinated biphenyls (PCBs) have been detected at concentrations exceeding 1 part per million (ppm) at one location, RFI-40-12, at a depth of 0 to 2 ft below ground surface (bgs).

In 2013 soil sampling activities were completed to delineate the benzo(a)pyrene exceedance of NDC in the surface soil sample collected from RFI-40-12. Samples were collected on Site and on CSX property located to the east. The sample results indicated that the NDC impacts are located on Site.

Soil analytical results from samples collected during the RFI are discussed in more detail in the RFI Phase I and RFI Phase II reports that can be found in **Appendix Y**. However, pertinent AOI 40-A investigation data is in **Appendix X**. The soil boring and monitoring well locations are presented on **Figure P-2**.

3. Remedy Recommendation Rationale

The remedies recommended to address the soil exceedances at AOI 40-A are engineering and institutional controls. The rationale for this selection is detailed below:

- The planned remedy for the AOI 40-A, -B, & 16-C LNAPL areas includes bulkheading storm sewers leading to Outfalls 009 and 010. Therefore, the soil exceedances of GSIP do not require further controls.
- The potential direct groundwater discharge pathway from AOI 40-A, -B, &16-C to the Flint River will be addressed in **Appendix BB**.
- The soil exceedances of NDC criteria are not located beneath a concrete slab. The depth of NDC impacts are from the surface to 2 feet below ground surface and do not extend off-site.

4. Remedy Recommended

The remedies recommended to address the soil impacts at AOI 40-A are engineering and institutional controls. In addition, as noted in **Appendix J**, the Outfall 009 storm sewers will be bulkheaded as part of the remedy in AOI 40-A, -B, & 16-C, which will address the GSIP concerns. These remedies will prevent worker exposure to soil impacts.

4.1 Surface Cover

The remedy recommended to address on-Site shallow soil impacts is to install surface cover over the impacted area. The area requiring surface cover is presented on **Figure P-2**. The surface cover will be inspected and maintained to provide protection from future exposure. Details regarding the monitoring and maintenance activities associated with surface cover will be included in the design documentation. This remedy is consistent with the Final Decision for the Southend of the Site was issued by U.S. EPA in May 2010 (Southend Final Decision).

4.2 Institutional Controls

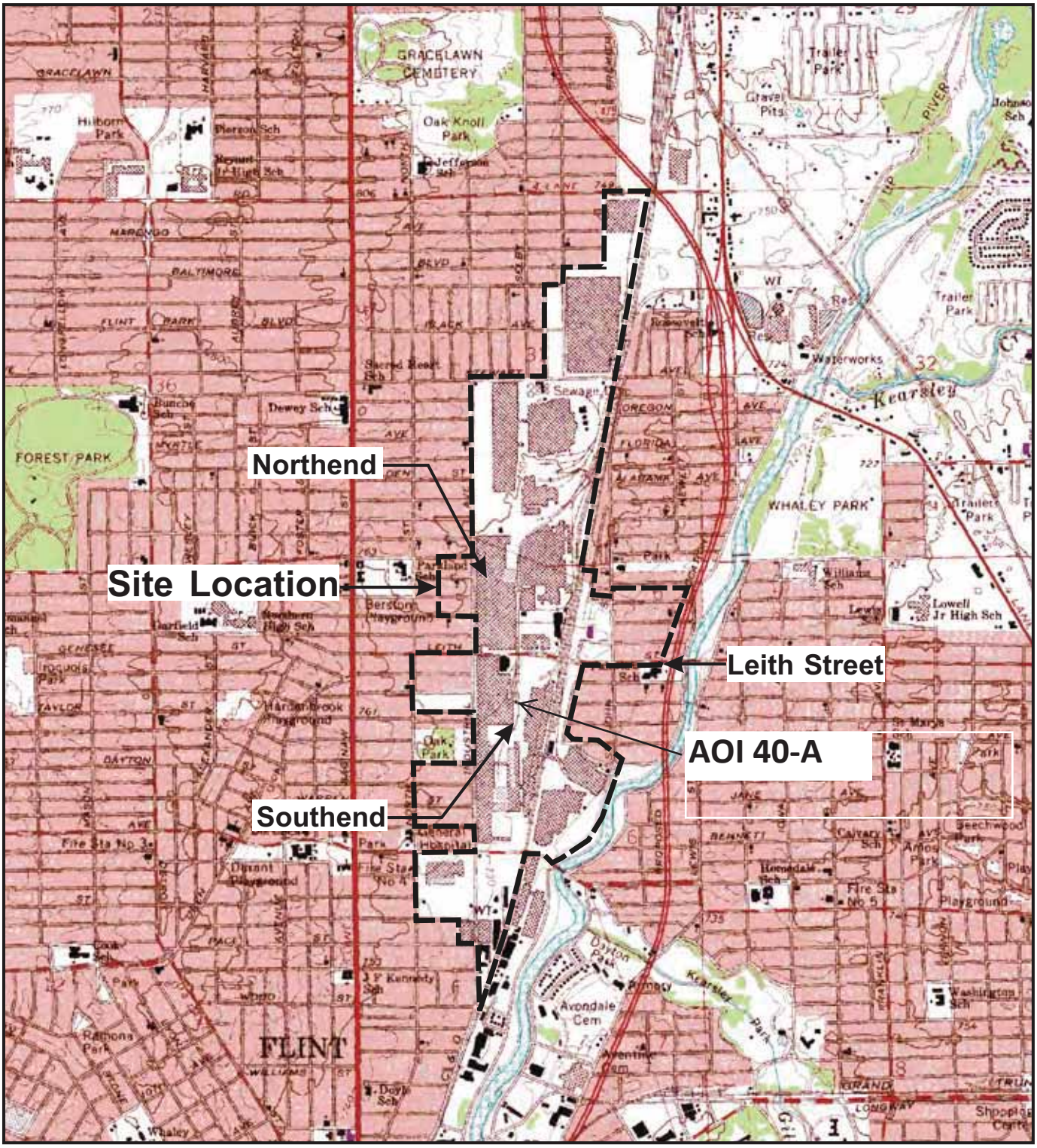
In addition to the Site-wide Institutional Controls discussed in the main report the following AOI specific controls will be necessary to limit potential for future exposure:

- Prohibit any excavation or other intrusive activity that could affect the integrity of the surface cover that is present to prevent direct contact with contaminated material (as noted on **Figure P-2**) except with using appropriate health and safety measures during short-term construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the surface cover, that could affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original barrier within a reasonable time period. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the NREPA.

- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure noted on **Figure 6 of the main report** including storm sewer bulkheads.

ARCADIS

Figures



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quad., Flint North, Mich. (1969, Photorevised 1975).

2000' 0 2000'

Approximate Scale: 1" = 2000'



Area Location

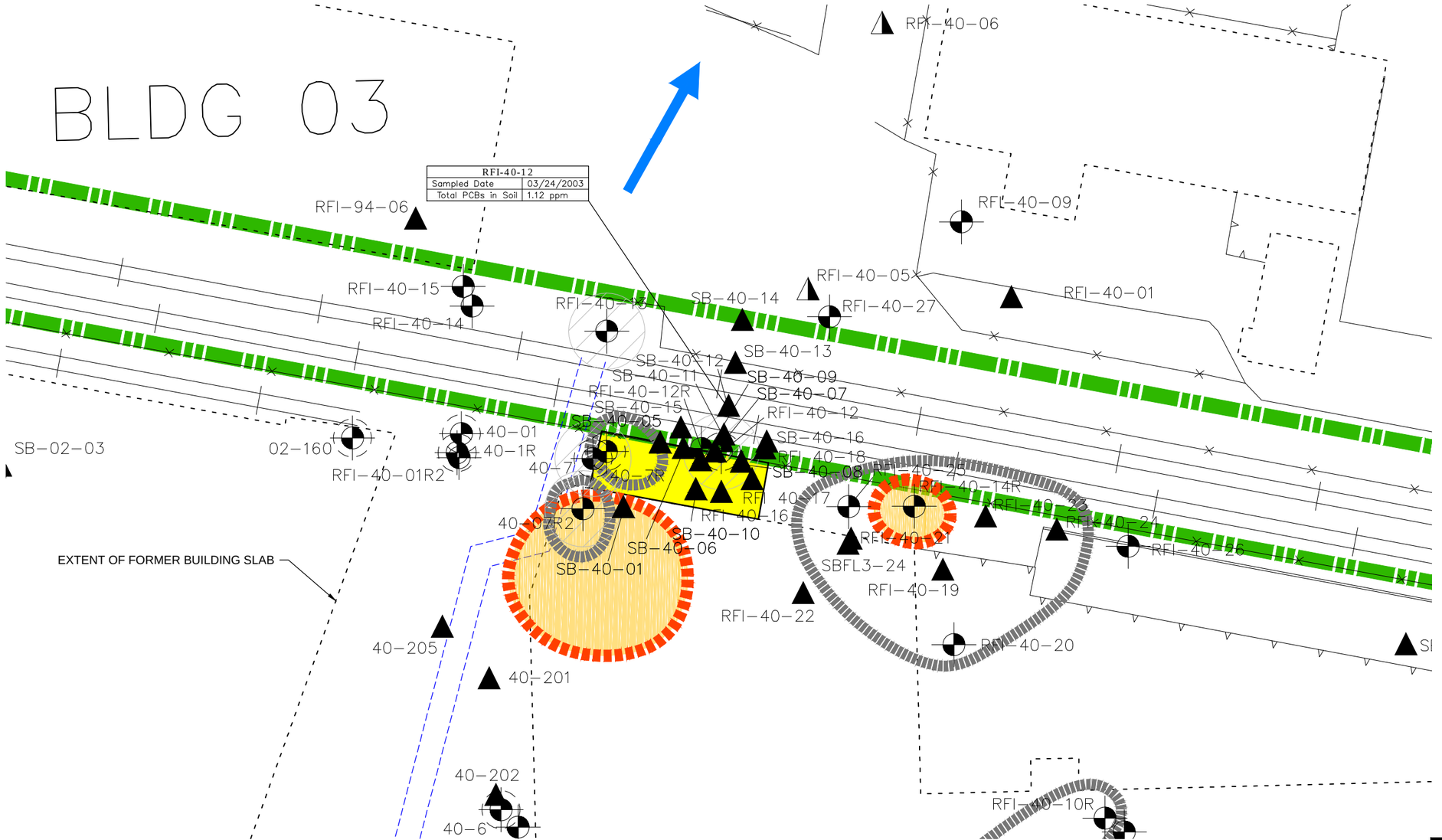
RACER TRUST
BUICK CITY, FLINT, MICHIGAN

SITE LOCATION MAP

ARCADIS

FIGURE
P-1

03/12/2012 SYRACUSE, NY-ENV/CAD-141-DJHOWES
B0064410/2012/01202/CDR/64410N01.CDR



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- PROPOSED AREA FOR SURFACE COVER REQUIREMENT
- GENERAL GROUNDWATER FLOW DIRECTION

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 20' 40'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 40-A SOIL IMPACTS

ARCADIS

FIGURE
P-2

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIVITY\00644100\20140020\6B64410_AOI 40-A-B-16C.dwg LAYOUT: P-2 SAVED: 8/28/2014 10:10 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ----
IMAGES: PROJECTNAME: ----

Appendix Q

AOI 83/84- Lead Soil Impact Investigation Summary and Remedy Recommendation Memo

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MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER
Chris Peters, ARCADIS

From:
Micki M. Maki
Victoria Stacey

Date:
August 29, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
AOI 83/84-3 Lead Soil Impacts Investigation Summary and Remedy Recommendation Memo
Buick City Site - Flint, MI

---

1. Overview

This summary and remedy recommendation memo has been prepared on behalf of Revitalizing Auto Communities Environmental Response Trust (RACER) by ARCADIS. This memo summarizes investigation activities completed and recommends remedies for area of interest (AOI) 83/84-3, which is located at the former Factory 83/84 area in the Northend of the Buick City Site (the Site) located in Flint, Michigan (**Figure Q-1**).

The former Factory 83/84 Area primarily manufactured axle assemblies prior to 1981. From 1981 to 2010, the area was used for manufacturing "white metals" components such as water pumps, pistons, and manifolds.

1.1 Background

Lead-impacted soils were identified at AOI 83/84-3 during the Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI). However, the extents of the lead impacted soils could not be delineated at the time due to the presence of process related equipment. Mean lead concentrations in surface and subsurface exceed Michigan Department of Environmental Quality (MDEQ) non-residential

direct contact (NDC) criterion of 900 milligrams per kilogram (mg/kg). In 2012, following the demolition of Factory 83/84, delineation of the lead-impacted soils was from in accordance with the approved AOI 83/84-3 Lead Soil Delineation Work Plan.

2. Subsurface Investigation

A total of 12 soil borings were completed in September and October 2012 to delineate lead impacts at AOI 83/84-3. Six soil borings were collocated with RFI borings to provide vertical delineation (RFI-83/84-16 through -18 and -35 through -37). The remaining six borings (SB-83/84-01 through -06) were completed to provide horizontal delineation of previously identified exceedances.

Three additional soil borings were completed in April 2013 (SB-83/84-13, SB-83/84-14, and MW-83/84-15) to further define subsurface impacts to the east. One of the three soil borings installed in April 2013 (MW-83/84-15) was completed as a monitoring well to investigate the AOI 83/84-1 LNAPL area as detailed in **Appendix H**.

Soil boring and monitoring well locations are shown on **Figure Q-2**. At each boring location the surface concrete was cored and soils were continuously field screened to a depth of approximately 8 feet bgs (or shallower if the boring met refusal). At location SB-83/84-04 a possible subfloor was encountered at 7.5 feet bgs.

2.1 Sample Collection

A total of 28 delineation soil samples were collected in 2012 and 2013. One to three soil samples were collect from each boring depending on soil conditions encountered (i.e. refusals, obstructions). Soil samples were based on previously identified exceedances as well as evidence of impact identified from field observations. Soil boring logs from locations completed in 2012/2013 are attached to this memo, while logs for borings completed during the RFI are presented in the RFI Phase I and RFI Phase II reports that can be found in **Appendix Y**.

Soil samples were submitted to Merit Laboratories Inc. in East Lansing, Michigan for the analysis of lead. Laboratory analytical results are summarized in **Appendix X**.

Upon completion of the event, soil borings were abandoned with hydrated bentonite pellets to within 6 inches of ground surface and completed with a concrete patch. Monitoring well MW-83/84-15 remains on-Site as part of the investigation of the AOI 83/84-1 LNAPL area.

2.2 Soil Analytical Results

Soil analytical results were compared to Michigan Part 201 Generic Nonresidential Cleanup Criteria. Sampling completed during the RFI detected lead at concentrations exceeding NDC criteria at RFI-83/84-05 (42,000/900 milligrams per kilogram [mg/kg]), RFI 83/84-16 (2,500/900 mg/kg), RFI-83/84-17R (1,800/900 mg/kg) RFI-83/84-18 (1,100/900 mg/kg), and RFI-83/84-35 (3,900/900 mg/kg). Soil data from samples collected during 2012/2013 are presented in **Appendix X,** while analytical results from samples collected during the RFI are discussed in more detail in the RFI Phase I and RFI Phase II reports that can be found in **Appendix Y**.

Lead concentrations in the soil samples collected during the 2012-2013 delineation event exceeded NDC criteria at SB-83/84-04 (3,090/900 mg/kg) and RFI-83/84-37 (1,350/900 mg/kg). Please note that a subsurface slab was present at 7.5 feet bgs in SB-83/84-04 preventing the collection of any deeper soil samples.

2.3 Investigation Conclusions

The lead-impacted soil samples are horizontally and vertically delineated within AOI 83/84-3. Please note that the end of the Factory 83/84 building slab provides horizontal delineation of shallow impacts (2.4 to 4.8 feet bgs) at RFI-83/84-37. Based on available elevation data the ground surface south of the slab is approximately 4 feet below the top of the slab and surface cover consists of 1 foot of concrete.

3. Remedy Recommendation Rationale

The remedies recommended to address the soil exceedances at AOI 83/84-3 are engineering and institutional controls. The rationales for this selection are detailed below:

- The human health risk assessment presented in the RFI Phase II Report showed that lead exceeded the mean concentration at AOI 83/84-3.
- The lead soil exceedances of the NDC criterion are located beneath the former Factory 83/84 concrete slab. The depth of impacts range from directly beneath the slab up to 8 feet below ground surface.
- An exceedance from 6 to 8 feet bgs was located at SB-83/84-04, which is horizontally delineated by samples collected from RFI-83/84-18, RFI-83/84-37, SB-83/84-03, SB-83/84-14, and MW-83/84-15 as shown on **Figure Q-2**.

- The exceedance at RFI-83/84-37 from 2.4 to 4.8 feet bgs is delineated by the edge of the factory slab to the South (**Figure Q-2**), where ground surface is approximately 4 feet below the top of the slab and surface cover consists of 1 foot of concrete.

4. Remedy Recommended

The remedies recommended to address the soil exceedances at AOI 83/84-3 are engineering and institutional controls. These remedies will prevent worker exposure to soil impacts.

4.1 Surface Cover

The remedy recommended to address shallow soil impacts (from 0 to 8 feet bgs) beneath the existing concrete slab is to maintain the surface cover over the impacted area. The area requiring surface cover is presented on **Figure Q-2**. The surface cover will be inspected and maintained to provide protection from future exposure.

As shown on **Figure Q-2**, the area requiring surface cover at AOI 83/84-3 overlaps the AOI 83/84-1 LNAPL plume. Please note that the remedies recommended for the AOI 83/84-1 LNAPL Area (presented in **Appendix H**) do not require intrusive measures in the vicinity of AOI 83/84-3 and should not interfere with the surface cover. In the event that subsurface work is required in the area requiring surface cover, those activities would be completed in accordance with the institutional controls outlined below.

4.2 Institutional Controls

In addition to the Site-wide Institutional Controls discussed in the main report, the following AOI-specific controls will be necessary to limit potential for future exposure:

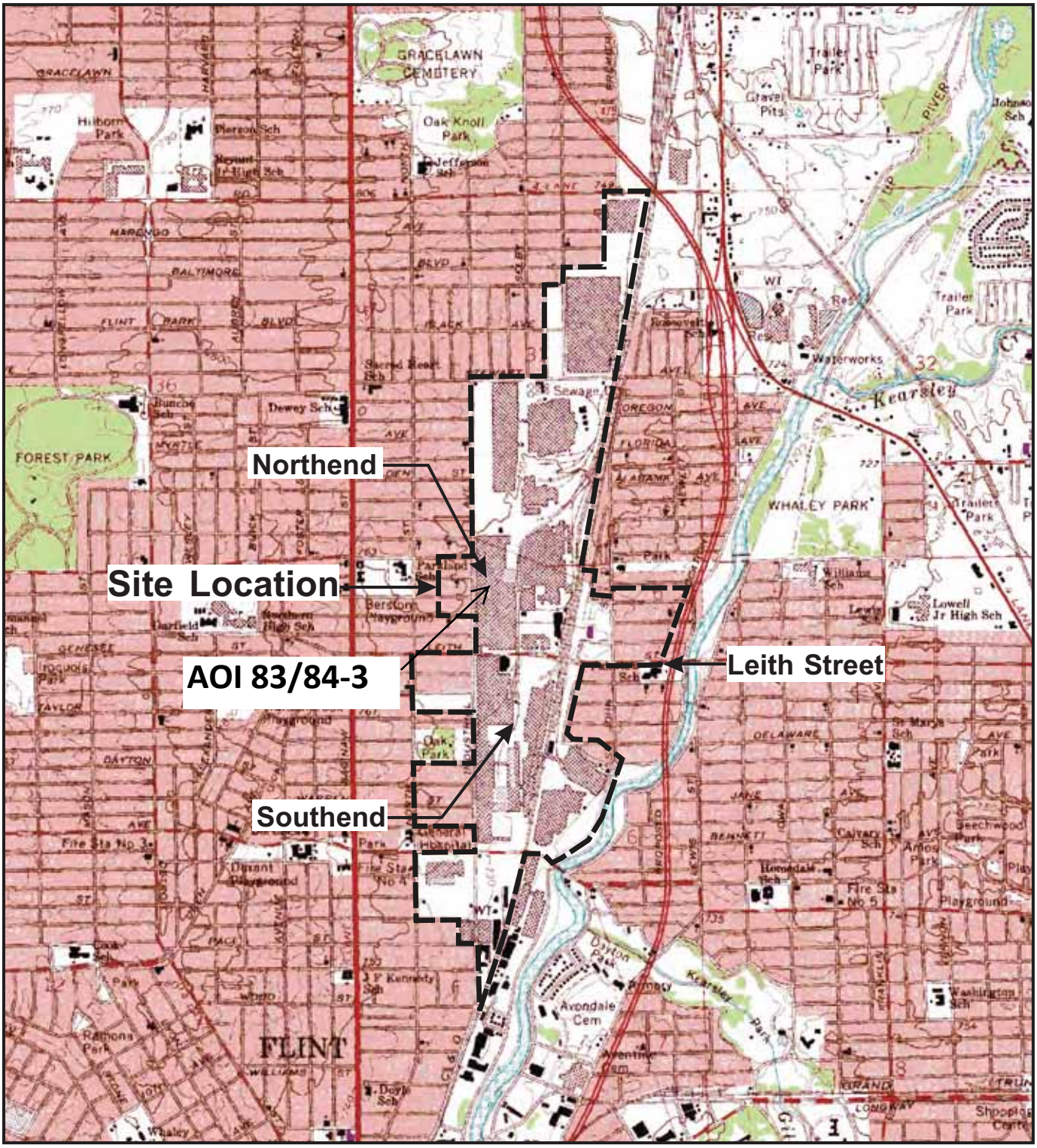
- Prohibit any excavation or other intrusive activity that could affect the integrity of the surface cover that is present to prevent direct contact with contaminated material (as noted on **Figure Q-2**) except with using appropriate health and safety measures during short-term construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the surface cover, that could affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original barrier within a reasonable amount of time. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that

demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the NREPA.

- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure noted on **Figure Q-2** including storm sewer bulkheads.

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Figures



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quad., Flint North, Mich. (1969, Photorevised 1975).

2000' 0 2000'

Approximate Scale: 1" = 2000'



Area Location

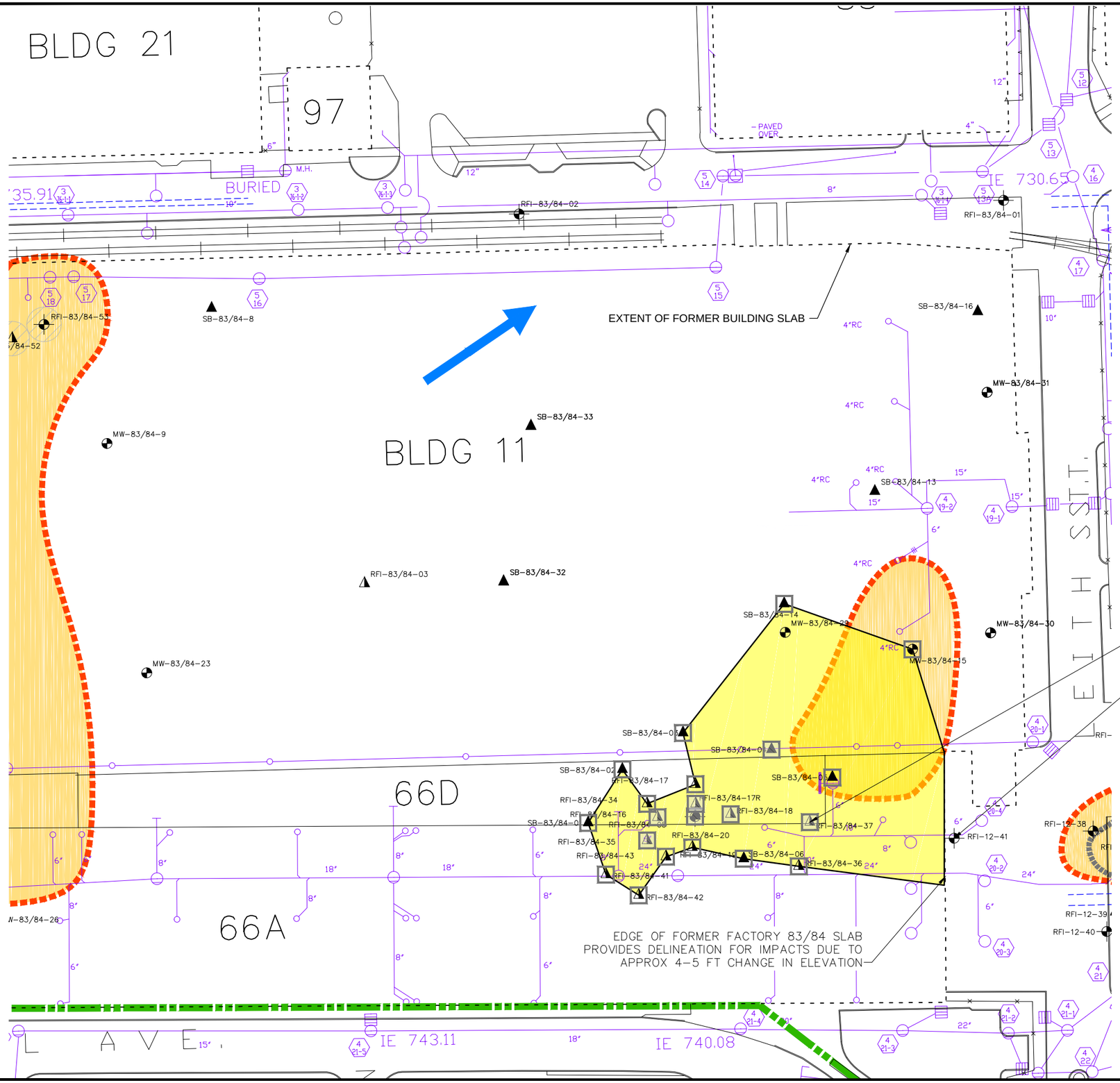
RACER TRUST
BUICK CITY, FLINT, MICHIGAN

SITE LOCATION MAP

ARCADIS

FIGURE
Q-1

03/12/2012 SYRACUSE, NY-ENV/CAD-141-DJHOWES
B0064410/2012/01202/CDR/64410N01.CDR



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- PROPOSED AREA FOR SURFACE COVER REQUIREMENT
- GENERAL GROUNDWATER FLOW DIRECTION
- STORM SEWER LINE
- SOIL SAMPLES DO NOT EXCEED NDC CRITERIA
- SOIL SAMPLES EXCEED NDC CRITERIA

CONCRETE SLAB ELEVATION AT RFI–83/84–37 IS 745.62 FEET AMSL.

GROUND SURFACE ELEVATION AT RFI–12–41 IS 741.56 FEET AMSL. IN ADDITION SURFACE COVER AT RFI–12–41 CONSISTS OF 1 FOOT OF CONCRETE.

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 3/19/2014.

0 40' 80'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 83/84-3
SOIL IMPACTS

ARCADIS

FIGURE
Q-2

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\06441\0\20140020\B\B6410_AOI 83.84-1.dwg LAYOUT: Q-2 SAVED: 8/27/2014 12:26 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 8/28/2014 10:37 AM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME: ----

Appendix R

AOI 86-1 Soil Impact
Remedy Recommendation Memo

ARCADIS of Michigan, LLC
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Suite 500
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Michigan 48377
Tel 248 994 2240
Fax 248 994 2241

MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER
Chris Peters, ARCADIS

From:
Micki M. Maki
Victoria Stacey

Date:
August 29, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
AOI 86-1 Soil Investigation Summary and Remedy Recommendation
Buick City Site - Flint, MI

---

1. Overview

This summary and remedy recommendation memo has been prepared on behalf of Revitalizing Auto Communities Environmental Response Trust (RACER) by ARCADIS. This memo summarizes investigation activities completed and recommends remedies for the soil impacts at area of interest (AOI) 86-1, which is located at the intersection of Leith Street and the CSX railroad tracks along the east side of the Buick City Site (the Site) located in Flint, Michigan (**Figure R-1**).

The light non-aqueous phase liquid (LNAPL) impacts associated with AOI 86-1 are discussed separately in **Appendix A**. This memo focuses on the soil impact located on the south side of Leith Street, which are not associated with the LNAPL.

2. Soil Data Summary

Select soil samples collected from borings at AOI 86-1 in the area located south of Leith Street exceed groundwater surface water interface protection criteria (GSIP) for arsenic (6.2-190/4.6 milligrams per kilogram [mg/kg]), cobalt (12-74/2 mg/kg), manganese (640-3,200/98 mg/kg), mercury (0.145/0.05 mg/kg), selenium (0.89-4.8/0.4 mg/kg), and zinc (540/280 mg/kg); non-residential direct contact criteria (NDC) for

arsenic (56-190/37 mg/kg); and non-residential particulate soil inhalation criteria (NPSIC) for manganese (3,200/1,500 mg/kg). Additionally, polychlorinated biphenyls (PCBs) have been detected at concentrations exceeding 1 part per million (ppm) at one location, RFI-86-07, at a depth of 0.7 to 2.7 feet below ground surface (bgs). The soil boring and monitoring well locations are presented on **Figure R- 2**. The extent of impacts in this area have not been delineated; therefore, additional sampling will be completed to delineate the extent of impacts prior to implementing the selected remedy.

3. 761.61 (c)

As discussed above, PCBs were detected in the soil at RFI-86-07 (0.7 to 2.7 ft bgs) at 3.5 ppm and additional soil sampling is required to delineate the extent of PCB impacts prior to remedy implementation. A delineation sampling plan will be submitted for EPA approval, prior to conducting investigation activities. As shown on **Figure R-2** this portion of the AOI 86-1 area is covered by a 1-foot concrete slab, which serves as a protective cover.

4. Remedy Recommendation Rationale

The remedies recommended to address the soil exceedances at AOI 86-1 are engineering and institutional controls. The rationale for this selection is detailed below:

- The human health risk assessment presented in the RFI Phase II Report showed that soil exceedances did not exceed the United States Environmental Protection Agency's (USEPA) cumulative cancer risk and hazard index limits.
- Exceedances of GSIP criteria, with the exception of RFI-86-01, are in an area that has been bulkheaded; therefore, the groundwater surface water interface pathway is not complete. The location of the bulkhead is presented on **Figure 6 of the main report**. The soils in this area were not disturbed during bulkheading activities.
- The soil exceedance of NPSIC criteria is located RFI-86-01 at a depth of 8.5 feet bgs. The soil present from the surface to a depth of 8 feet bgs is providing an engineering control by capping the impacted soil.
- The NDC exceedances and PCB detection are located beneath a concrete slab, which provides an engineering control by capping the impacted soil. The existing cover will remain in place at the location shown on **Figure R-2** and an excavation restriction will be placed on this area.
- The soil exceedances at AOI 86-1 have not been fully delineated, so additional borings will need to be completed prior to finalizing the proposed restrictions. In the event that exceedances of

applicable criteria are identified on CSX property the impacts will be addressed in accordance with the Final Decision for the Southend of the Site - Corrective Measures to Address Offsite Soil Contamination.

5. Remedy Recommended

The remedies recommended to address the soil exceedances at AOI 86-1 – South of Leith Street are engineering and institutional controls. These remedies will prevent worker exposure to soil impacts.

5.1 Surface Cover

The remedy recommended to address shallow soil impacts beneath the existing slab is to maintain the surface cover over the impacted area. The surface cover will minimize water infiltration and prevent direct contact with impacted soils. The area requiring surface cover is presented on **Figure R-2**. The surface cover will be inspected and maintained to provide protection from future exposure. Please note that additional sampling will be completed to refine the extents of impacts prior to implementing the restriction.

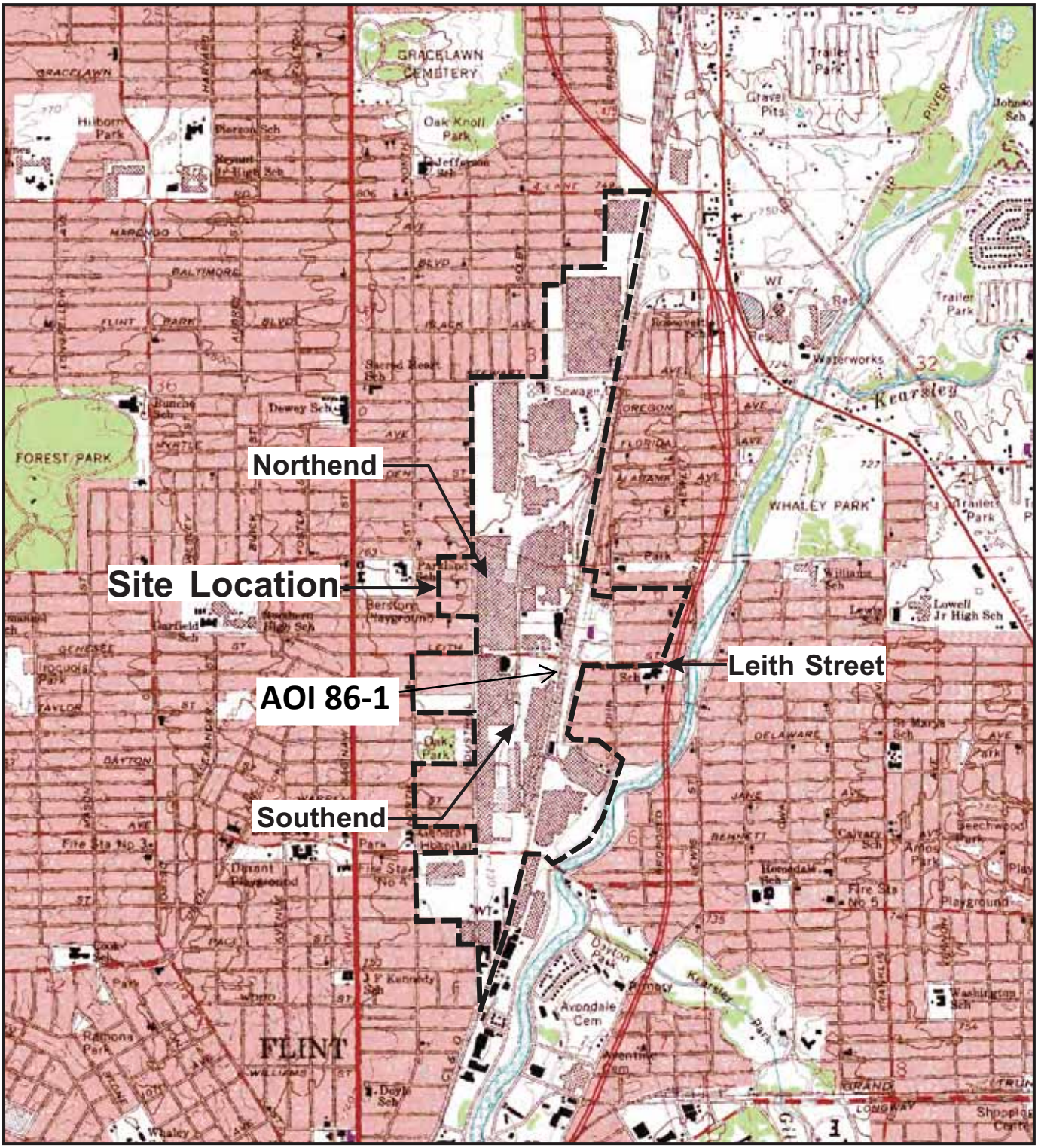
5.2 Institutional Controls

In addition to the Site-wide Institutional Controls discussed in the main report the following AOI specific controls will be necessary to limit potential for future exposure:

- Prohibit any excavation or other intrusive activity that could affect the integrity of the surface cover that is present to prevent direct contact with contaminated material (as noted on **Figure R-2**) except with using appropriate health and safety measures during short-term construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the surface cover, that could affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original barrier within a reasonable time period. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the NREPA.
- Notify future owners of the presence of PCBs.

ARCADIS

Figures



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quad., Flint North, Mich. (1969, Photorevised 1975).

2000' 0 2000'

Approximate Scale: 1" = 2000'



Area Location

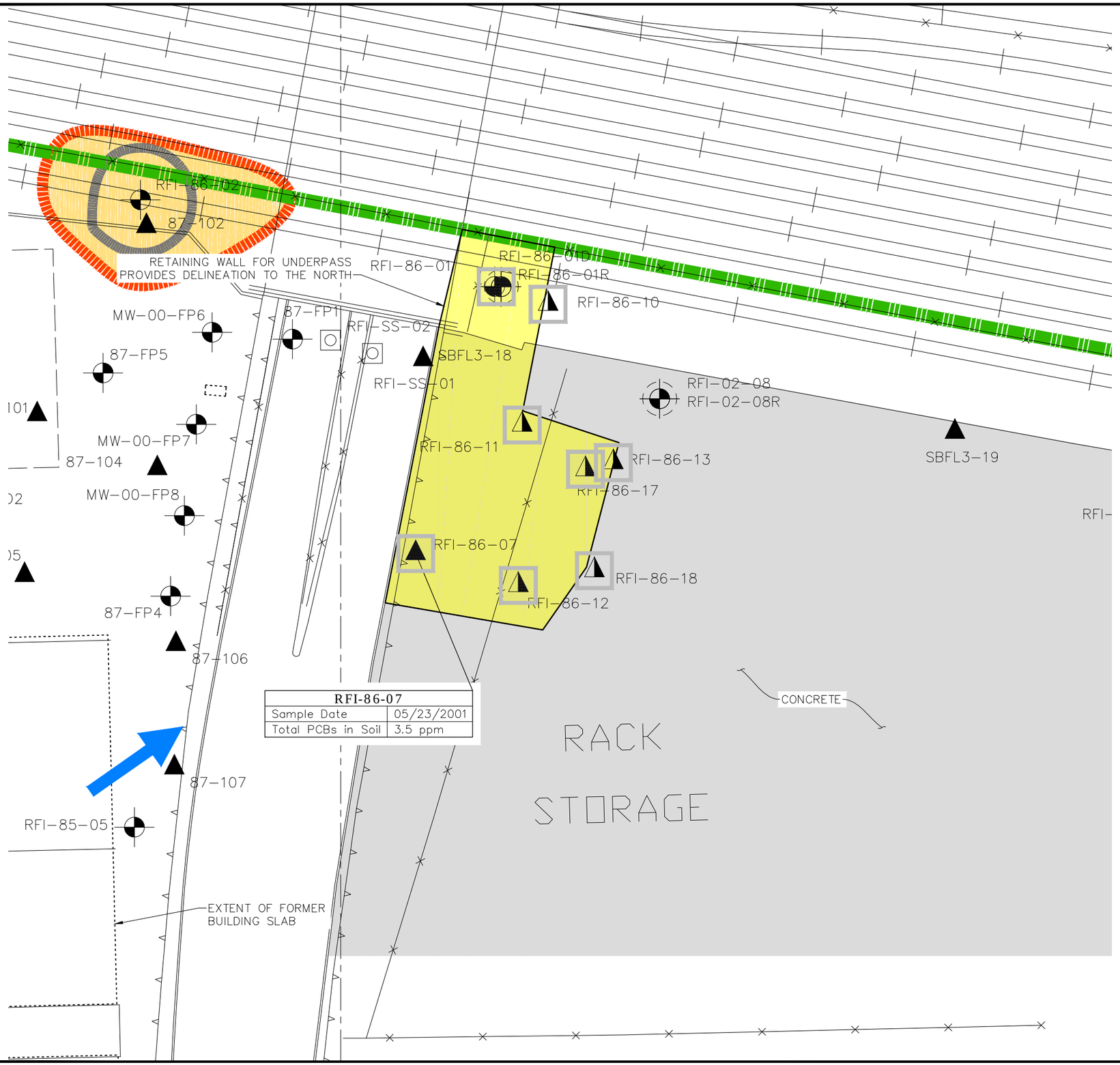
RACER TRUST
BUICK CITY, FLINT, MICHIGAN

SITE LOCATION MAP

ARCADIS

FIGURE
R-1

03/12/2012 SYRACUSE, NY-ENV/CAD-141-DJHOWES
B0064410/2012/01202/CDR/64410N01.CDR



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- DEMOLISHED BUILDING
- PROPOSED AREA FOR SURFACE COVER REQUIREMENT
- GENERAL GROUNDWATER FLOW DIRECTION
- SOIL SAMPLES DO NOT EXCEED ND OR NPSIC CRITERIA
- SOIL SAMPLES EXCEED NDC OR NPSIC CRITERIA

0 20' 40'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 86-1
SOUTH OF LEITH STREET
SOIL IMPACTS

ARCADIS

FIGURE
R-2

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIVE\00644100\2014\00206\B64410_AOI 86-1.dwg LAYOUT: R-2 SAVED: 9/5/2014 2:22 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 9/5/2014 2:25 PM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME: ----

Appendix R - Addendum No. 1

February 15, 2016

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MEMO

To:
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Copies:
Grant Trigger, RACER
Dave Favero, RACER

From:
Micki M. Maki

Date:
February 15, 2016

ARCADIS Project No.:
B0064410.2016

Subject:
Remedy Recommendation Report
Appendix R AOI 86-1 Soil Impacts - Addendum No.1
Summary of Additional Soil Investigation
RACER Buick City Site, Flint, Michigan

Introduction

This Addendum No. 1 to Remedy Recommendation Report Appendix R presents a summary of the soil investigation data collected at AOI 86-1 *south of Leith Street* from March 19, 2014 through December 31, 2015 at the Buick City Site (Site) located in Flint, Michigan. Please note that additional investigations conducted at the AOI 86-1 Fuel Oil Area *north of Leith Street* are addressed in the addendum to Appendix A - AOI 86-1 Fuel Oil Area.

Summary of Investigation Activities

In December 2014 additional soil investigation activities were completed at AOI 86-1, south of Leith Street, to delineate the extents of arsenic, manganese, and PCB impacted shallow soils (**Figure R-A1-1**).

Three soil borings (SB-86-12, SB-86-13, and SB-86-14) were completed to delineate arsenic exceedances of nonresidential direct contact (NDC) criteria in shallow soil (0.5 to 3 feet below ground surface [ft bgs]) at RFI-86-07, RFI-86-12, and RFI-86-17. The borings were completed to a depth of approximately 5 ft bgs.

Soil samples were collected from the 2 foot interval below concrete and 3 to 5 feet bgs and submitted to the laboratory for arsenic analysis.

At RFI-86-01R two soil borings (SB-86-10 and SB-86-11) were completed to delineate the manganese exceedance of nonresidential particulate soil inhalation criteria (NPSIC). The borings were completed to a depth of 13 ft bgs. Soil samples were collected from 4 to 6, 8.5 to 10.5 and 10.5 to 12.5 ft bgs and submitted to the laboratory for manganese analysis.

At RFI-86-07 two soil borings (SB-86-15 and SB-86-16) were completed to delineate the PCB detection of 3.5 ppm in shallow soil (0.7 to 2.7 ft bgs). The borings were completed to a depth of approximately 5 feet bgs. Soil samples were collected from the 2 foot interval below concrete and 3 to 5 feet bgs and submitted to the laboratory for PCB analysis. In addition, the soil samples collected from the two borings (SB-86-13 and SB-86-14) completed west of RFI-86-07 as part of the arsenic investigation activities were also submitted for PCB analysis.

Summary of Data Evaluation

Arsenic Delineation

Arsenic concentrations in the soil samples collected from SB-86-12, SB-86-13, and SB-86-14 (**Table R-A1-1**) did not exceed NDC criteria. The arsenic exceedances in shallow soils at RFI-86-07, RFI-86-12, and RFI-86-17 have been delineated.

Manganese Delineation

Manganese concentrations in the soil samples collected from SB-86-10 and SB-86-11 (**Table R-A1-1**) did not exceed NPSIC. The manganese exceedance at RFI-86-01R has been delineated.

PCB Delineation

The analytical results of the soil samples collected from SB-86-13, SB-86-14, SB-86-15, and SB-86-16 (**Table R-A1-1**) did not detect PCBs. The PCB detection in shallow soils at RFI-86-07 has been delineated.

Table R-A1-1 **Summary of Additional Soil Investigation**
Remedy Recommendation Report Appendix R – AOI 86-1 Soil Impacts - Addendum No. 1
RACER Buick City Site, Flint, Michigan

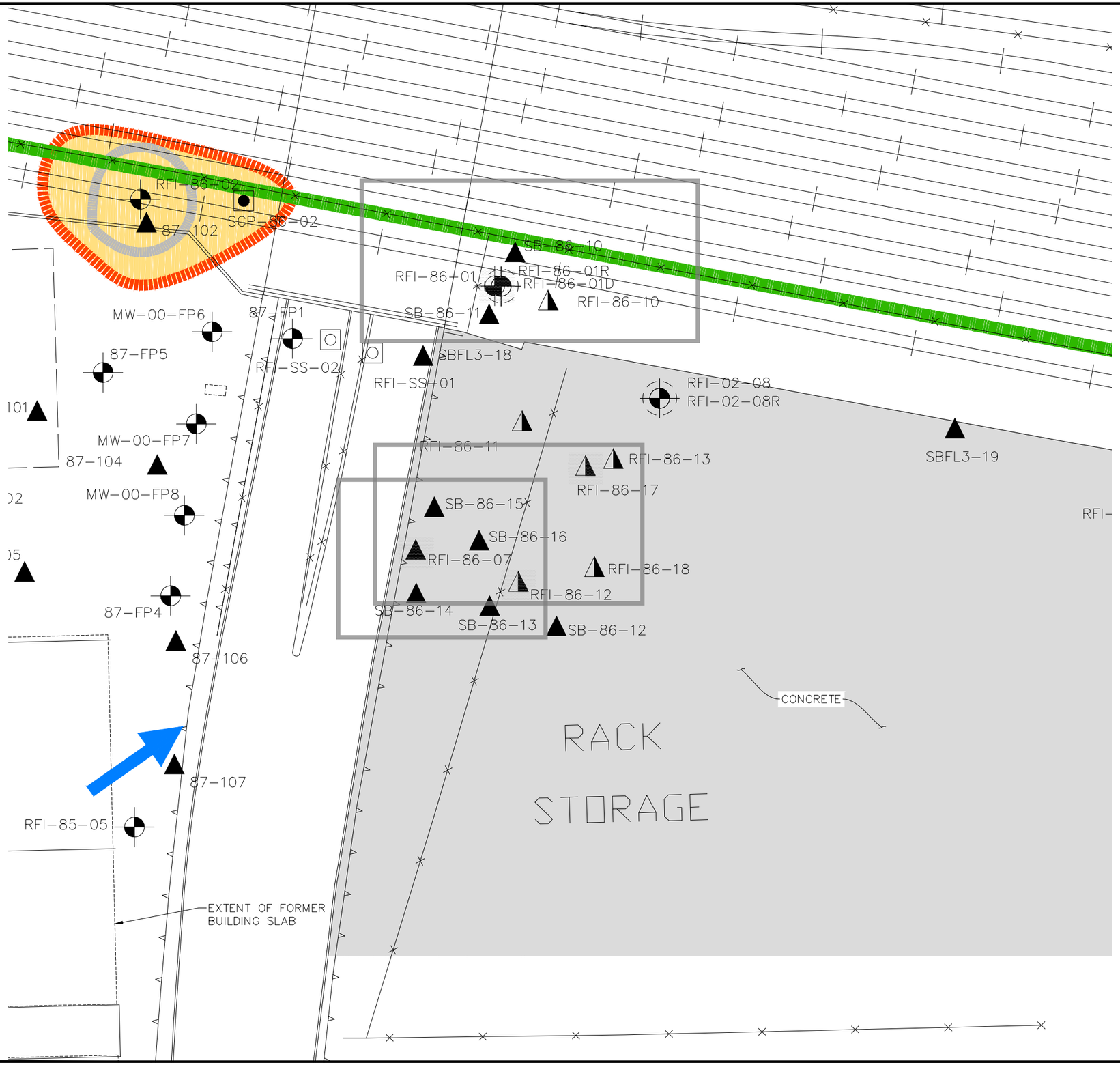
Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GSIP	NDC	NPSIC	NSVIA	NVSICI	SB-86-10 4 - 6 12/04/14	SB-86-10 8.5 - 10.5 12/04/14	SB-86-10 10.5 - 12.5 12/04/14	SB-86-11 4 - 6 12/04/14	SB-86-11 8.5 - 10.5 12/04/14	SB-86-11 10.5 - 12.5 12/04/14	SB-86-12 1 - 3 12/04/14
PCB														
Aroclor-1016 (PCB-1016)	mg/kg	- -	- -	16	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	mg/kg	- -	- -	16	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	mg/kg	- -	- -	16	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	mg/kg	- -	- -	16	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	mg/kg	- -	- -	16	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	mg/kg	- -	- -	16	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	mg/kg	- -	- -	16	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Inorganic														
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	NA	NA	NA	NA	NA	NA	**36.2**
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	80.6	**449**	**317**	42	**123**	67.4	NA
Miscellaneous														
Total solids	mg/kg	- -	- -	- -	- -	- -	- -	960,000	890,000	820,000	860,000	810,000	800,000	920,000

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GSIP	NDC	NPSIC	NSVIA	NVSICI	SB-86-12 3 - 5 12/04/14	SB-86-13 1 - 3 12/04/14	SB-86-13 3 - 5 12/04/14	SB-86-14 1 - 3 12/04/14	SB-86-14 3 - 5 12/04/14	SB-86-15 1 - 3 12/04/14	SB-86-15 3 - 5 12/04/14
PCB														
Aroclor-1016 (PCB-1016)	mg/kg	- -	- -	16	- -	- -	- -	NA	0.33 UG	0.33 UG	0.33 UG	0.33 UG	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	- -	- -	16	- -	- -	- -	NA	0.33 UG	0.33 UG	0.33 UG	0.33 UG	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	- -	- -	16	- -	- -	- -	NA	0.33 UG	0.33 UG	0.33 UG	0.33 UG	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	- -	- -	16	- -	- -	- -	NA	0.33 UG	0.33 UG	0.33 UG	0.33 UG	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	- -	- -	16	- -	- -	- -	NA	0.33 UG	0.33 UG	0.33 UG	0.33 UG	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	- -	- -	16	- -	- -	- -	NA	0.33 UG	0.33 UG	0.33 UG	0.33 UG	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	- -	- -	16	- -	- -	- -	NA	0.33 UG	0.33 UG	0.33 UG	0.33 UG	0.33 U	0.33 U
Inorganic														
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	1.17	1.15	0.97	3.59	1.31	NA	NA
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	NA	NA	NA	NA	NA	NA	NA
Miscellaneous														
Total solids	mg/kg	- -	- -	- -	- -	- -	- -	880,000	870,000	910,000	910,000	910,000	940,000	940,000

Table R-A1-1 **Summary of Additional Soil Investigation**
Remedy Recommendation Report Appendix R – AOI 86-1 Soil Impacts - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT	GSIP	NDC	NPSIC	NSVIA	NVSICI	SB-86-16 1 - 3 12/04/14	SB-86-16 3 - 5 12/04/14
PCB									
Aroclor-1016 (PCB-1016)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	- -	- -	16	- -	- -	- -	0.33 U	0.33 U
Inorganic									
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	NA	NA
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	NA	NA
Miscellaneous									
Total solids	mg/kg	- -	- -	- -	- -	- -	- -	960,000	850,000

Notes:
mg/kg - milligram per kilogram
ft - feet
CSAT - Soil Saturation Concentration Screening Level
GSIP - Groundwater Surface Water Interface Protection Criteria
NDC - Nonresidential Direct Contact Criteria
NPSIC - Nonresidential Particulate Soil Inhalation Criteria
NSVIA - Nonresidential Soil Volatilization to Indoor Air Inhalation Criteria
NVSICI - Nonresidential Infinite Source Volatile Soil Inhalation Criteria
U – not detected above the reporting limit
Y - Elevated reporting limit due to high target concentration
Shaded and bolded results exceed one or more criteria.



LEGEND:

- RACER PROPERTY BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENT OF PRODUCT OBSERVED IN SOIL
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- DEMOLISHED BUILDING
- GENERAL GROUNDWATER FLOW DIRECTION

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF 02/15/2016.

0 20' 40'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

AOI 86-1
SOUTH OF LEITH STREET
SOIL IMPACTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
R-A1-1

CITY: SYRACUSE DIV/GROUP: ENV DB: A.SANCHEZ LD: ALS/GMS PIC: C.S.PETERS PM: C.KIKER TM: C.KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\06441020160020764410_AOI86-1.dwg LAYOUT: R-A1-1 SAVED: 2/11/2016 12:18 PM ACADVER: 19.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 2/11/2016 12:19 PM BY: SANCHEZ, ADRIAN
IMAGES: PROJECTNAME: ----

Appendix S

WMU #3 Investigation Summary and Remedy Recommendation Memo

ARCADIS of Michigan, LLC
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Novi
Michigan 48377
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Fax 248 994 2241

MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER
Chris Peters, ARCADIS

From:
Micki M. Maki
Victoria Stacey

Date:
August 29, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
Waste Management Unit #3 Subsurface Investigation Summary and Remedy Recommendation
Buick City Site - Flint, MI

---

1. Overview

This summary and remedy recommendation memo has been prepared on behalf of Revitalizing Auto Communities Environmental Response Trust (RACER) by ARCADIS. This memo summarizes investigation activities completed and recommends remedies for Resource Conservation and Recovery Act of 1976 (RCRA) Waste Management Unit #3 (WMU #3) located at former Factory 10 in the Northend of the Buick City Site (the Site) located in Flint, Michigan (**Figure S-1**).

1.1 WMU #3 Background

The WMU #3 – Factory 10, Building 20 Transmission Plant Tank Area is located in the northwestern portion of former Factory 10 as shown on the Site Plan (**Figure S-2**). WMU #3 consisted of two above ground storage tanks (ASTs) used to store 1,1,1-trichloroethane (1,1,1-TCA), a 5,000-gallon AST to store 1,1,1-TCA product and a 1,000-gallon regulated waste AST to store spent 1,1,1-TCA. These tanks were removed, cleaned and disposed of 1985. A release was identified at WMU #3 in May 1986 while completing maintenance work at the area. In 1987 and 1988, hydrogeological investigations were completed in the area and revealed 1,1,1-TCA impacts to soil and groundwater.

In April 2007, a *RCRA Waste Management Unit Closure Status Report* (Closure Status Report) was submitted to the Michigan Department of Environmental Quality (MDEQ) – Waste and Hazardous Materials Division (WHMD) summarizing 10 WMU areas (including WMU #3) and the proposed activities / information required for closure (ARCADIS BBL, 2007). In a July 27, 2009, response letter the MDEQ determined that due to the possibility that the release may have been from the former product tank and not the regulated waste tank, as well as the fact that some soil removal was conducted during a waterline repair, it would be appropriate to incorporate this WMU into the Site-wide corrective action being conducted pursuant to the Corrective Action Consent Agreement with the U.S. Environmental Protection Agency (U.S. EPA) and by placing restrictive covenants on groundwater usage and soil relocation. A copy of the July 27, 2009 correspondence can be found in **Appendix Y**.

2. Subsurface Investigation

Investigation activities were completed at WMU #3 on September 20, 2012 and May 23, 2013 in accordance with the approved WMU #3 Subsurface Investigation Work Plan and WMU #3 Additional Investigation Work Plan (work plans).

In September 2012, three soil borings were completed to evaluate subsurface impacts at WMU #3. One boring location was completed at WMU #3 (WMU-3A) and the other two borings were completed to the southeast (WMU-3B) and southwest (WMU-3C) of WMU #3, in the direction of downgradient groundwater flow.

Four additional soil borings were completed in May 2013 to further define subsurface impacts based on a detection of 1,1-Dichloroethene (1,1-DCE) at WMU-3B (further discussed below). Three of the soil borings were located to the north (WMU-SB-04), east (WMU-TW-05), and south (WMU-TW-06) of WMU-3B, and one boring location (WMU-TW-07) was collocated with WMU-3B. Three of the four soil borings installed in May 2013 (WMU-TW-05, WMU-TW-06, and WMU-TW-07) were completed as temporary monitoring wells. WMU-TW-05 and WMU-TW-06 are downgradient from WMU-3B.

Soil boring and temporary monitoring well locations are shown on **Figure S-3**. At each boring location the surface concrete was cored and soils were continuously field screened until the lower clay unit was encountered (approximately 18 to 20 feet below ground surface [bgs]) or until approximately 20 feet bgs (if no clay unit was encountered).

2.1 Sample Collection

Two soil samples were collected from each soil boring location except for WMU-TW-07, which was collocated with WMU-3B and only sampled for groundwater. Soil samples were either 1) biased towards evidence of impact identified from field observations and photo ionization detector (PID) readings or 2) in the event that no evidence of impact was observed, soil samples were collected from the 2-foot interval below the slab and the 2-foot interval above the groundwater table. PID readings in the soil borings ranged from 0.1 to 24.8 parts per million (ppm). Soil samples were collected from the following intervals; WMU-3A (9 to 10 and 19 to 20 ft bgs), WMU-3B (5 to 6 and 19 to 20 ft bgs), WMU-3C (4 to 5 and 10 to 11 ft bgs) WMU-SB-04 (1 to 3 and 8 to 10 ft bgs), WMU-TW-05 (2 to 4 and 8 to 10 ft bgs), WMU-TW-06 (1 to 3 and 8 to 10 ft bgs). The soil sample from WMU-3A (9 to 10 ft bgs) was biased toward the evidence of impact (strong odor) noted on the soil boring log. Soil boring and temporary well logs are attached to this memo.

One groundwater sample was collected from each of the temporary monitoring wells. Water samples include: WMU-TW-05, WMU-TW-06, and WMU-TW-07. The temporary wells were screened across the water table and developed prior to sampling through the use of low flow sampling techniques. Materials used in construction of the temporary monitoring wells were the same standard materials used in construction of permanent monitoring wells; however, the temporary wells will not include bentonite seal, grout, or surface completion as would normally apply to permanent monitoring wells.

Soil and groundwater samples were submitted to Merit Laboratories Inc. in East Lansing, Michigan for the analysis of volatile organic compounds (VOCs) and/or 1,4-Dioxane (a semi-volatile organic compound [SVOC]). Laboratory analytical results for soil and groundwater are summarized in the **Appendix X**.

Upon completion of the event, soil borings were abandoned with hydrated bentonite pellets to within 6 inches of ground surface and completed with a concrete patch. The temporary monitoring wells were left in place after sampling pending review of the analytical results and will be abandoned at a later date.

2.2 Soil and Groundwater Analytical Results

Soil analytical results were compared to Michigan Part 201 Generic Cleanup Criteria - Nonresidential Soils for groundwater surface water interface protection (GSIP) criteria, soil volatilization to indoor air inhalation (NSVIA) criteria, infinite source volatile soil inhalation criteria (NVSICI), particulate soil inhalation (NPSIC) criteria, and direct contact (NDC) criteria.

The soil analytical results detected the following exceedances of criteria:

- The soil samples collected from soil boring WMU-3A (9 to 10 and 19 to 20 ft bgs), WMU-3B (5 to 6 and 19 to 20 ft bgs), and WMU-SB-04 (1 to 3 ft bgs) detected 1,1,1-Trichloroethane (TCA) at concentrations which exceed GSIP criteria (2.34-10.14/1.8 mg/kg).
- The soil sample collected from soil boring WMU-3B (19 to 20 ft bgs) detected at a concentration which exceeds NSVIA criteria for 1,1-DCE (0.36/0.33 mg/kg) and Trichloroethene (3.58/1.9 mg/kg).

Groundwater analytical results were compared to applicable Michigan Part 201 Criteria including groundwater surface water interface (GSI) criteria and Nonresidential Groundwater Volatilization to Indoor Air Inhalation Criteria (NGVIA).

The groundwater analytical results detected the following exceedances of criteria:

- The groundwater sample collected from temporary monitoring well WMU-TW-05 detected 1,1,1-TCA (1,690/89 ug/L); 1,1-Dichloroethane (1,1-DCA) (780/740 ug/L); and 1,1-DCE (310/130 ug/L) at concentrations which exceed GSI criteria.

2.3 Investigation Conclusions

Five of the soil samples analyzed exceed GSIP criteria for 1,1,1-TCA and one groundwater sample collected from WMU-TW-5 exceeded GSI criteria for 1,1,1-TCA, 1,1-DCA, and 1,1-DCE. Based on available groundwater elevation and storm sewer invert elevation data in this area, the groundwater level is approximately at the same elevation as the storm sewer invert. This represents a possible pathway for groundwater at WMU #3 to infiltrate the Outfall 003 storm sewers, which discharges to the Flint River. However, the monthly samples collected from Outfall 003 (as part of the NPDES Plus Monitoring Program) did not detect 1,1,1-TCA, 1,1-DCA, or 1,1-DCE in the 24 sampling events that analyzed for VOCs.

One of the soil samples (WMU-3B [19 to 20 ft bgs]) analyzed exceeds NSVIA criteria for 1,1-DCE and TCE. Analytical concentrations in the shallow soil sample collected from the same boring, WMU-3B (5 to 6 ft bgs), did not exceed NSVIA criteria. The impact of 1,1-DCE and TCE in soil above NSVIA criteria at WMU-3B has been delineated. Concentrations of 1,1-DCE or TCE in soil samples collected to the north (WMU-SB-04), east (WMU-TW-05), south (WMU-TW-06) and west (WMU-3A and WMU-3C) were below

the NSVIA criterion. In addition, all buildings at the Site have been demolished; therefore, indoor air criteria are not applicable to the Site at this time.

3. Remedy Recommendation

The remedy recommended to address the soil volatilization to indoor air exceedance associated with WMU #3 is establishing the Site-wide institutional controls to limit potential for future exposure.

Boring Logs

Date Start: 1/13/2014
Date Finish: 1/13/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 7.5' bgs
Water Level Finish (ft. btoc.): NA

Northing: 565983.117
Easting: 13305591.528
Casing Elevation: 752.608

Borehole Depth (ft. bgs.): 15.0' bgs
Surface Elevation: 750.729

Descriptions By: Adam Richmond

Well/Boring ID: **TW-DH-RW-01-01**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 34F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			(0.0 - 2.0') PEBBLE, very large, angular; poorly sorted; dry; gray (10YR 4/1).		0.0-1.0' bgs (Native Sand)
				NA			NOTE: FILL.		+2.0-5.0' bgs (2.0" PVC Casing)
				1.1			(2.0 - 3.0') PEBBLE, medium, angular; little sand, very coarse, angular; trace silt; poorly sorted; wet; very dark grayish brown (2.5Y 3/2).		1.0-4.0' bgs (Pure Gold Medium Bentonite Chips)
	1	0.0-6.0	6.0	1.8			NOTE: FILL. Most likely wet due to SLAG (brick, metal, glass fragments) forming perched water.		
				1.0			(3.0 - 12.0') SAND, fine, little granules, subrounded to subangular; trace small pebbles, subrounded to subangular; little silt; poorly sorted; moist; light olive brown (2.5Y 5/4).		
5 / -5				1.1			NOTE: Slight odor from 3.0 to 12.0' bgs.		
				0.8					
	2	6.0-10.0	4.0	0.9			NOTE: Wet at 7.5' bgs.	▼	
				1.2					4.0-15.0' bgs (#1 Global Drilling Suppliers Filter Pack Sand)
10 / -10				0.9					5.0-15.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
	3	10.0-15.0	4.6	1.1			(12.0 - 15.0') SAND, medium, well sorted; moist; light olive brown (2.5Y 5/3).		
15 / -15				0.5			NOTE: End of boring at 15.0' bgs.		

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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs

TW-DH-RW-01-01 (5-7) collected at 0915
TW-DH-RW-01-01 (9-11) collected at 0920
TW-DH-RW-01-01 (13-15) collected at 0925

Date Start: 1/13/2014
Date Finish: 1/13/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 565991.676
Easting: 13305592.703
Casing Elevation: 752.512

Borehole Depth (ft. bgs.): 15.0' bgs
Surface Elevation: 750.653

Descriptions By: Adam Richmond

Well/Boring ID: **TW-DH-RW-01-02**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 35F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			(0.0 - 2.0') GRAVEL.		0.0-1.0' bgs (Native Sand)
				NA					+2.0-5.0' bgs (2.0" PVC Casing)
				3.7			(2.0 - 3.0') PEBBLE, medium, angular; little sand, very coarse, angular; trace silt; poorly sorted; wet; very dark grayish brown (2.5Y 3/2).		1.0-4.0' bgs ' (Pure Gold Medium Bentonite Chips)
	1	0.0-6.0	6.0	3.9			NOTE: FILL. Most likely wet due to SLAG (brick, metal, glass fragments) forming perched water.		
				6.0			(3.0 - 8.0') SAND, fine, little granules, subrounded to subangular; trace small pebbles, subrounded to subangular; little silt; poorly sorted; moist; light olive brown (2.5Y 5/4).		
5 / -5				4.2			NOTE: Slight odor from 3.0 to 8.0' bgs.		
				3.1					
				3.7			(8.0 - 8.5') CLAY, medium plasticity, no dilatancy; stiff; dry; olive brown (2.5Y 4/6). NOTE: Gray (10YR 2/1) mottling.		
	2	6.0-10.0	4.0	3.7			(8.5 - 12.0') SAND, fine, little granules, subrounded to subangular; trace small pebbles, subrounded to subangular; little silt; poorly sorted; moist; light olive brown (2.5Y 5/4).		4.0-15.0' bgs (#1 Global Drilling Suppliers Filter Pack Sand)
				6.4					
10 / -10				1.2			NOTE: Wet at 10.0' bgs.	▼	5.0-15.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
				0.6					
	3	10.0-15.0	4.6	0.5			(12.0 - 15.0') SAND, medium; well sorted; moist; light olive brown (2.5Y 5/3).		
				0.6					
15 / -15							NOTE: End of boring at 15.0' bgs.		

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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs. Approximately 25 gallons of drilling water used.

TW-DH-RW-01-02 (5-7) collected at 1040
TW-DH-RW-01-02 (9-11) collected at 1045
TW-DH-RW-01-02 (13-15) collected at 1050

Date Start: 1/13/2014
Date Finish: 1/13/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 9.5' bgs
Water Level Finish (ft. btoc.): NA

Northing: 565992.854
Easting: 13305604.769
Casing Elevation: 752.921

Borehole Depth (ft. bgs.): 15.0' bgs
Surface Elevation: 750.942

Descriptions By: Adam Richmond

Well/Boring ID: **TW-DH-RW-01-03**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 41F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			(0.0 - 1.0') GRAVEL.		0.0-1.0' bgs (Native Sand)
				2.0			(1.0 - 3.0') PEBBLE, medium, angular; little sand, very coarse, angular; trace silt; poorly sorted; wet; very dark grayish brown (2.5Y 3/2).		+2.0-5.0' bgs (2.0" PVC Casing)
				11.7			NOTE: FILL. Most likely wet due to SLAG (brick, metal, glass fragments) forming perched water.		
	1	0.0-6.0	6.0	11.6			(3.0 - 8.0') SAND, fine, little granules, subrounded to subangular; trace small pebbles, subrounded to subangular; little silt; poorly sorted; moist; light olive brown (2.5Y 5/4).		1.0-4.0' bgs (Pure Gold Medium Bentonite Chips)
				2.2					
5 / -5				2.0			NOTE: Slight odor from 3.0 to 8.0' bgs.		
				2.2					
	2	6.0-10.0	2.9	2.0			(8.0 - 8.3') CLAY, medium plasticity, no dilatancy; stiff; dry; olive brown (2.5Y 4/6). NOTE: Gray (10YR 2/1) mottling.		
				3.4			(8.3 - 12.0') SAND, fine, little granules, subrounded to subangular; trace small pebbles, subrounded to subangular; little silt; poorly sorted; moist; light olive brown (2.5Y 5/4).		4.0-15.0' bgs (#1 Global Drilling Suppliers Filter Pack Sand)
				3.7			NOTE: Wet at 9.5' bgs.	▼	
10 / -10				1.2					5.0-15.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
	3	10.0-15.0	3.9	1.1			(12.0 - 15.0') SAND, medium; well sorted; moist; light olive brown (2.5Y 5/3).		
				1.0					
15 / -15							NOTE: End of boring at 15.0' bgs.		

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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs. Approximately 25 gallons of drilling water used.

TW-DH-RW-01-03 (5-7) collected at 1250
TW-DH-RW-01-03 (9-11) collected at 1255
TW-DH-RW-01-03 (13-15) collected at 1300

Date Start: 1/13/2014
Date Finish: 1/13/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 9.5' bgs
Water Level Finish (ft. btoc.): NA

Northing: 565982.442
Easting: 13305605.083
Casing Elevation: 752.479

Borehole Depth (ft. bgs.): 15.0' bgs
Surface Elevation: 750.72

Descriptions By: Adam Richmond

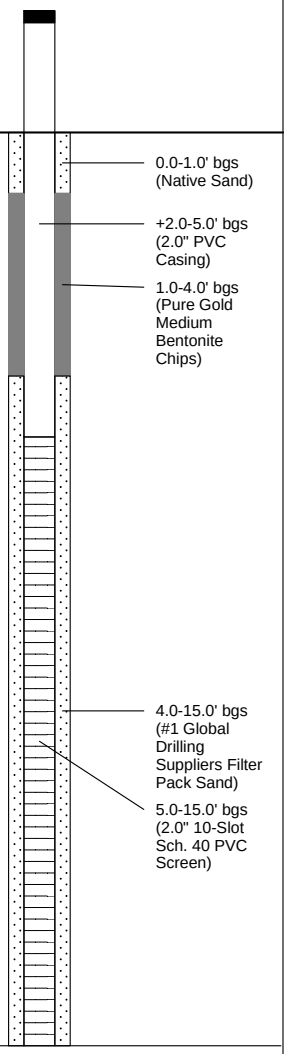
Well/Boring ID: **TW-DH-RW-01-04**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 41F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0				NA			(0.0 - 1.0') GRAVEL.	
				3.5			(1.0 - 3.0') PEBBLE, medium, angular; little sand, very coarse, angular; trace silt; poorly sorted; wet; very dark grayish brown (2.5Y 3/2).	
				2.7			NOTE: FILL. Most likely wet due to SLAG (brick, metal, glass fragments) forming perched water.	
	1	0.0-6.0	6.0	1.6			(3.0 - 7.0') SAND, fine, little granules, subrounded to subangular; trace small pebbles, subrounded to subangular; little silt; poorly sorted; moist; light olive brown (2.5Y 5/4).	
				1.8				
5 / -5				3.4			NOTE: Slight odor from 3.0 to 7.0' bgs.	
				1.2			(7.0 - 7.5') CLAY, medium plasticity, no dilatancy; stiff; dry; olive brown (2.5Y 4/6). NOTE: Gray (10YR 2/1) mottling.	
	2	6.0-10.0	3.5	2.1			(7.5 - 12.0') SAND, fine, little granules, subrounded to subangular; trace small pebbles, subrounded to subangular; little silt; poorly sorted; moist; light olive brown (2.5Y 5/4).	
				3.4				
				3.6			NOTE: Wet at 9.5' bgs.	▼
10 / -10				2.2				
				1.4				
	3	10.0-15.0	4.3	1.8			(12.0 - 15.0') SAND, medium; well sorted; moist; light olive brown (2.5Y 5/3).	
				0.8				
15 / -15				0.8			NOTE: End of boring at 15.0' bgs.	



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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs. Approximately 25 gallons of drilling water used.

TW-DH-RW-01-04 (5-7) collected at 1455
TW-DH-RW-01-04 (9-11) collected at 1500
TW-DH-RW-01-04 (13-15) collected at 1505

Date Start: 1/13/2014
Date Finish: 1/13/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 10.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 565965.547
Easting: 13305592.33
Casing Elevation: 752.518

Borehole Depth (ft. bgs.): 15.0' bgs
Surface Elevation: 750.829

Descriptions By: Adam Richmond

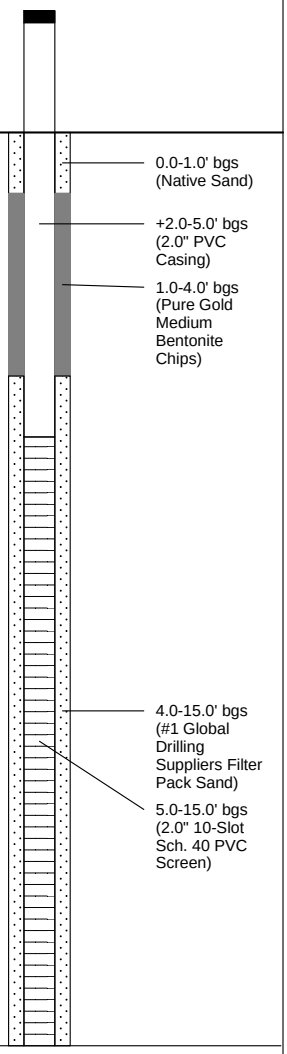
Well/Boring ID: **TW-DH-RW-01-05**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 43F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0				NA			(0.0 - 1.0') GRAVEL.	
				2.0			(1.0 - 3.0') PEBBLE, medium, angular; little sand, very coarse, angular; trace silt; poorly sorted; wet; very dark grayish brown (2.5Y 3/2). NOTE: FILL. Most likely wet due to SLAG (brick, metal, glass fragments) forming perched water.	
	1	0.0-6.0	6.0	0.8				
				2.8			(3.0 - 8.0') SAND, fine, little granules, subrounded to subangular; trace small pebbles, subrounded to subangular; little silt; poorly sorted; moist; light olive brown (2.5Y 5/4).	
				1.9				
5 / -5				5.0			NOTE: Slight odor from 3.0 to 8.0' bgs.	
				1.6				
	2	6.0-10.0	3.3	1.8				
				4.7			(8.0 - 9.0') CLAY, medium plasticity, no dilatancy; stiff; dry; olive brown (2.5Y 4/6). NOTE: Gray (10YR 2/1) mottling.	
				5.0			(9.0 - 12.0') SAND, fine, little granules, subrounded to subangular; trace small pebbles, subrounded to subangular; little silt; poorly sorted; moist; light olive brown (2.5Y 5/4).	
10 / -10				2.0			NOTE: Wet at 10.0' bgs.	▼
				2.1				
	3	10.0-15.0	3.7	1.6			(12.0 - 15.0') SAND, medium; well sorted; moist; light olive brown (2.5Y 5/3).	
				1.8				
				1.2				
15 / -15							NOTE: End of boring at 15.0' bgs.	



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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs. Approximately 25 gallons of drilling water used.

TW-DH-RW-01-05 (5-7) collected at 1555
TW-DH-RW-01-05 (9-11) collected at 1600
TW-DH-RW-01-05 (13-15) collected at 1605

Date Start: 1/14/2014
Date Finish: 1/14/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 7.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 565969.907
Easting: 13305597.452
Casing Elevation: 752.663

Borehole Depth (ft. bgs.): 15.0' bgs
Surface Elevation: 750.581

Descriptions By: Adam Richmond

Well/Boring ID: **TW-DH-RW-01-06**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 21F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			(0.0 - 2.0') GRAVEL.		0.0-1.0' bgs (Native Sand)
				NA					+2.0-5.0' bgs (2.0" PVC Casing)
				0.8			(2.0 - 3.0') PEBBLE, medium, angular; little sand, very coarse, angular; trace silt; poorly sorted; wet; very dark grayish brown (2.5Y 3/2).		1.0-4.0' bgs (Pure Gold Medium Bentonite Chips)
	1	0.0-6.0	6.0	1.2			NOTE: FILL. Most likely wet due to SLAG (brick, metal, glass fragments) forming perched water.		
				0.9			(3.0 - 8.5') SAND, fine, little granules, subrounded to subangular; trace small pebbles, subrounded to subangular; little silt; poorly sorted; moist; light olive brown (2.5Y 5/4).		
5 / -5				1.0			NOTE: Slight odor from 3.0 to 8.5' bgs.		
				0.3					
				0.5			NOTE: Wet at 7.0' bgs.	▼	
	2	6.0-10.0	2.9	0.5			(8.5 - 9.0') CLAY, medium plasticity, no dilatancy; stiff; dry; olive brown (2.5Y 4/6). NOTE: Gray (10YR 2/1) mottling.		
				0.6			(9.0 - 12.0') SAND, fine, little granules, subrounded to subangular; trace small pebbles, subrounded to subangular; little silt; poorly sorted; moist; light olive brown (2.5Y 5/4).		4.0-15.0' bgs (#1 Global Drilling Suppliers Filter Pack Sand)
10 / -10				0.2					5.0-15.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
				0.3					
	3	10.0-15.0	3.25	0.2			(12.0 - 15.0') SAND, medium; well sorted; moist; light olive brown (2.5Y 5/3).		
15 / -15				0.2			NOTE: End of boring at 15.0' bgs.		

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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs. Approximately 25 gallons of drilling water used.

TW-DH-RW-01-06 (5-7) collected at 0905
TW-DH-RW-01-06 (9-11) collected at 0910
TW-DH-RW-01-06 (13-15) collected at 0915

Date Start: 1/14/2014
Date Finish: 1/14/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 7.0' bgs
Water Level Finish (ft. btoc.): NA

Northing: 565966.136
Easting: 13305606.657
Casing Elevation: 752.517

Borehole Depth (ft. bgs.): 15.0' bgs
Surface Elevation: 750.629

Descriptions By: Adam Richmond

Well/Boring ID: **TW-DH-RW-01-07**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Sunny, 25F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			(0.0 - 1.0') PEBBLE, very large, angular; poorly sorted; dry; gray (10YR 4/1). NOTE: FILL		0.0-1.0' bgs (Native Sand)
				0.2			(1.0 - 3.0') PEBBLE, medium, angular; little sand, very coarse, angular; trace silt; poorly sorted; wet; very dark grayish brown (2.5Y 3/2).		+2.0-5.0' bgs (2.0" PVC Casing)
				0.2			NOTE: FILL. Most likely wet due to SLAG (brick, metal, glass fragments) forming perched water.		1.0-4.0' bgs (Pure Gold Medium Bentonite Chips)
	1	0.0-6.0	6.0	0.9			(3.0 - 12.0') SAND, fine, little granules, subrounded to subangular; trace small pebbles, subrounded to subangular; little silt; poorly sorted; moist; light olive brown (2.5Y 5/4).		
5 / -5				2.1					
				3.3			NOTE: Slight odor from 3.0 to 12.0' bgs.		
				0.9					
				1.1			NOTE: Wet at 7.0' bgs.	▼	
	2	6.0-10.0	3.2	1.5					
				1.8					4.0-15.0' bgs (#1 Global Drilling Suppliers Filter Pack Sand)
10 / -10				0.8					5.0-15.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
				0.7					
	3	10.0-15.0	4.3	0.7			(12.0 - 15.0') SAND, medium; well sorted; moist; light olive brown (2.5Y 5/3).		
				0.6					
15 / -15				0.6			NOTE: End of boring at 15.0' bgs.		

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Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs. Approximately 25 gallons of drilling water used.

TW-DH-RW-01-07 (5-7) collected at 1005
TW-DH-RW-01-07 (9-11) collected at 1010
TW-DH-RW-01-07 (13-15) collected at 1015

Date Start: 1/10/2014
Date Finish: 1/10/2014
Drilling Company: Cascade
Driller's Name: John Roberts, Randy O'Hearn
Drilling Method: Sonic
Sampling Method: 4.0" five foot core barrel
Rig Type: Sonic
Water Level Start (ft. bgs.): 7.0'
Water Level Finish (ft. btoc.): NA

Northing: 565875.948
Easting: 13305595.523
Casing Elevation: 753.335

Borehole Depth (ft. bgs.): 15.0'
Surface Elevation: 750.78

Descriptions By: A. Richmond

Well/Boring ID: **TW-DH-RW-02-01**

Client: RACER Trust

Location: Buick City
Flint, MI

Weather Conditions: Cloudy, 29F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0				NA			(0.0 - 2.0') PEBBLE, very large; poorly sorted; dry; gray (10YR 4/1).		0.0-1.0' bgs (Native Sand)
				NA			NOTE: Gravel FILL.		+2.0-5.0' bgs (2.0" PVC Casing)
	1	0.0-6.0	6.0	0.3			(2.0 - 6.0') SAND, coarse, little medium, angular; little medium pebbles, subangular; trace large pebbles, angular; trace clay; poorly sorted; moist; dark yellowish brown (10YR 4/6).		1.0-4.0' bgs (Pure Gold Medium Bentonite Chips)
				0.9					
				4.4			NOTE: SLAG (metal, glass and brick fragments) at 4.0-6.0' bgs. Slight Odor. Little black sand (10YR 2/1).		
5 / -5				1.6					
				0.9			(6.0 - 8.5') SAND, fine, little silt, trace medium pebbles, subrounded to subangular; poorly sorted; moist; dark olive brown (2.5Y 3/3).	▼	
	2	6.0-10.0	4.0	0.4			NOTE: Wet at 7.0' bgs.		
				0.3			(8.5 - 15.0') SAND, medium, trace granules, subrounded to subangular; well sorted; wet; light olive brown (2.5Y 5/4).		4.0-15.0' bgs (#1 Global Drilling Suppliers Filter Pack Sand)
				1.5					
10 / -10				0.3			NOTE: Slight odor from 10.0 to 12.0' bgs.		5.0-15.0' bgs (2.0" 10-Slot Sch. 40 PVC Screen)
	3	10.0-15.0	4.7	0.4					
				0.3			NOTE: Moist from 13.0 to 15.0' bgs.		
				0.3					
				0.3					
15 / -15							NOTE: End of boring at 15.0' bgs		

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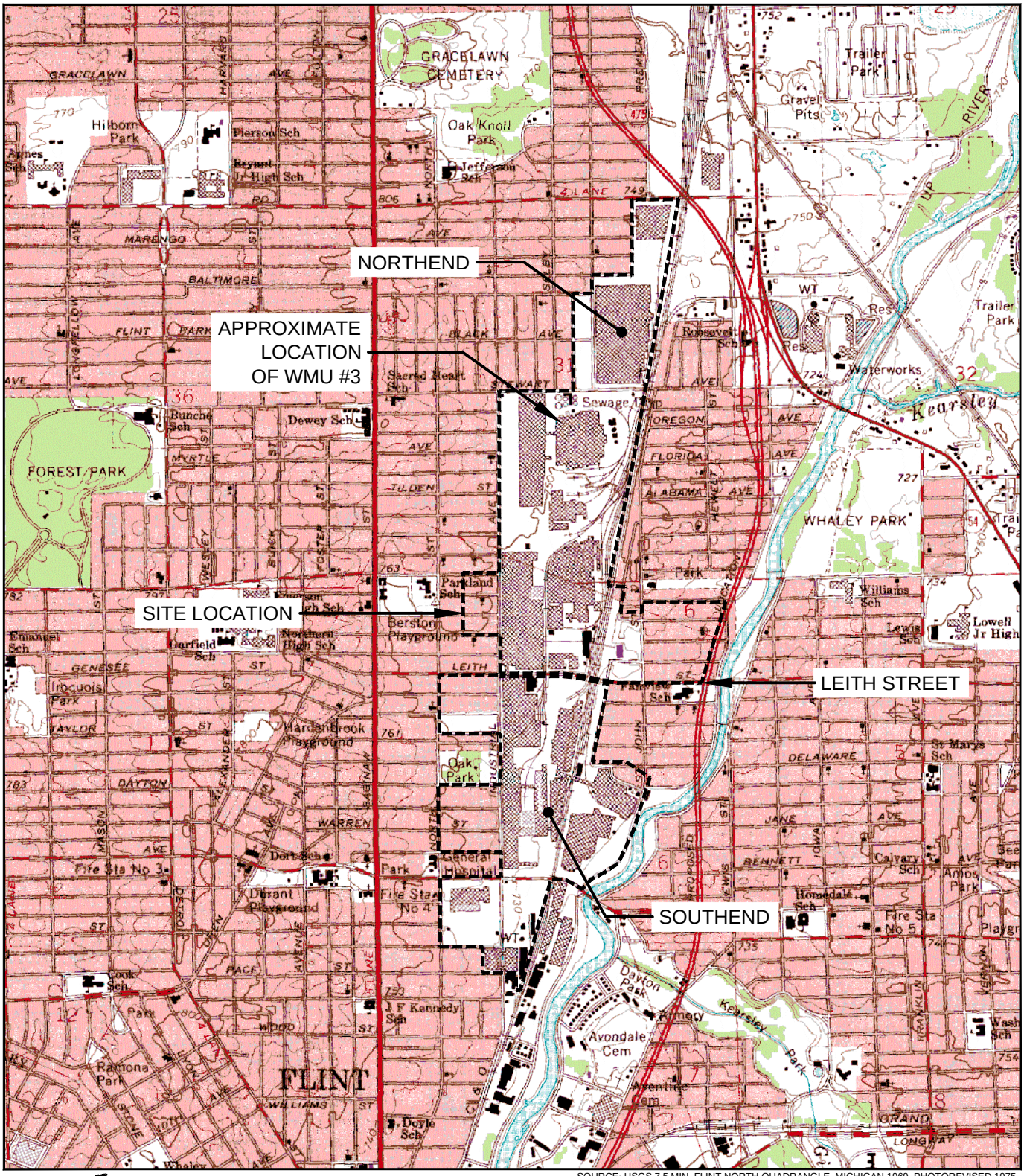
Remarks: btoc = below top of casing
bgs = below ground surface

Hand auger to 6.0' bgs

TW-DH-RW-02-01 (5-7) collected at 0920
TW-DH-RW-02-01 (9-11) collected at 0925
TW-DH-RW-02-01 (13-15) collected at 0930

ARCADIS

Figures



SOURCE: USGS 7.5 MIN. FLINT NORTH QUADRANGLE, MICHIGAN 1969, PHOTOREVISED 1975

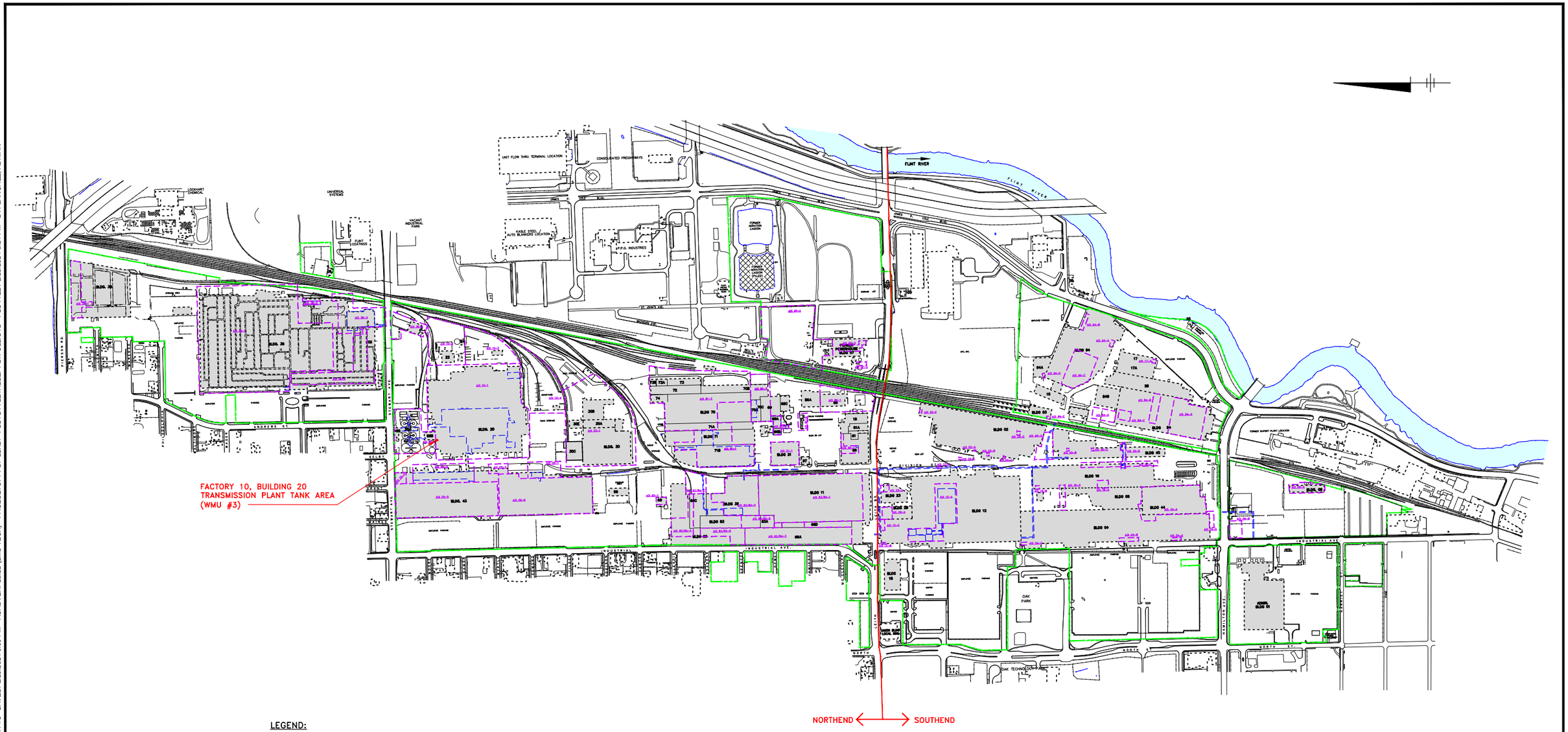
RACER TRUST
BUICK CITY
FLINT, MICHIGAN

SITE LOCATION

ARCADIS

FIGURE
S-1

CITY:Syracuse DIV/GROUP:ENV DB:A.SANCHEZ LD: PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIVE\B006441\0\20130090\6441020139000 G01.dwg LAYOUT: 1 SAVED: 9/5/2013 3:06 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 9/5/2013 3:09 PM BY: SANCHEZ, ADRIAN
XREFS: IMAGES: PROJECTNAME: ----
MI_Flint_North.tif



LEGEND:

- PROPERTY BOUNDARY
- APPROXIMATE AOI BOUNDARY
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE WMU AREA

NOTES:

1. IN ADDITION TO THE EXISTING HISTORICAL SITE DATA, THE WASTE MANAGEMENT UNIT LOCATIONS ARE ALSO BASED ON GIS DATA PROVIDED BY THE MDNRE IN JANUARY 2010.
2. BASE MAP INFORMATION FROM A SURVEY BY BMJ INC., DATED APRIL 2001, AT A SCALE OF 1:100.

0 400' 800'
GRAPHIC SCALE

RACER TRUST
BUICK CITY, FLINT, MICHIGAN

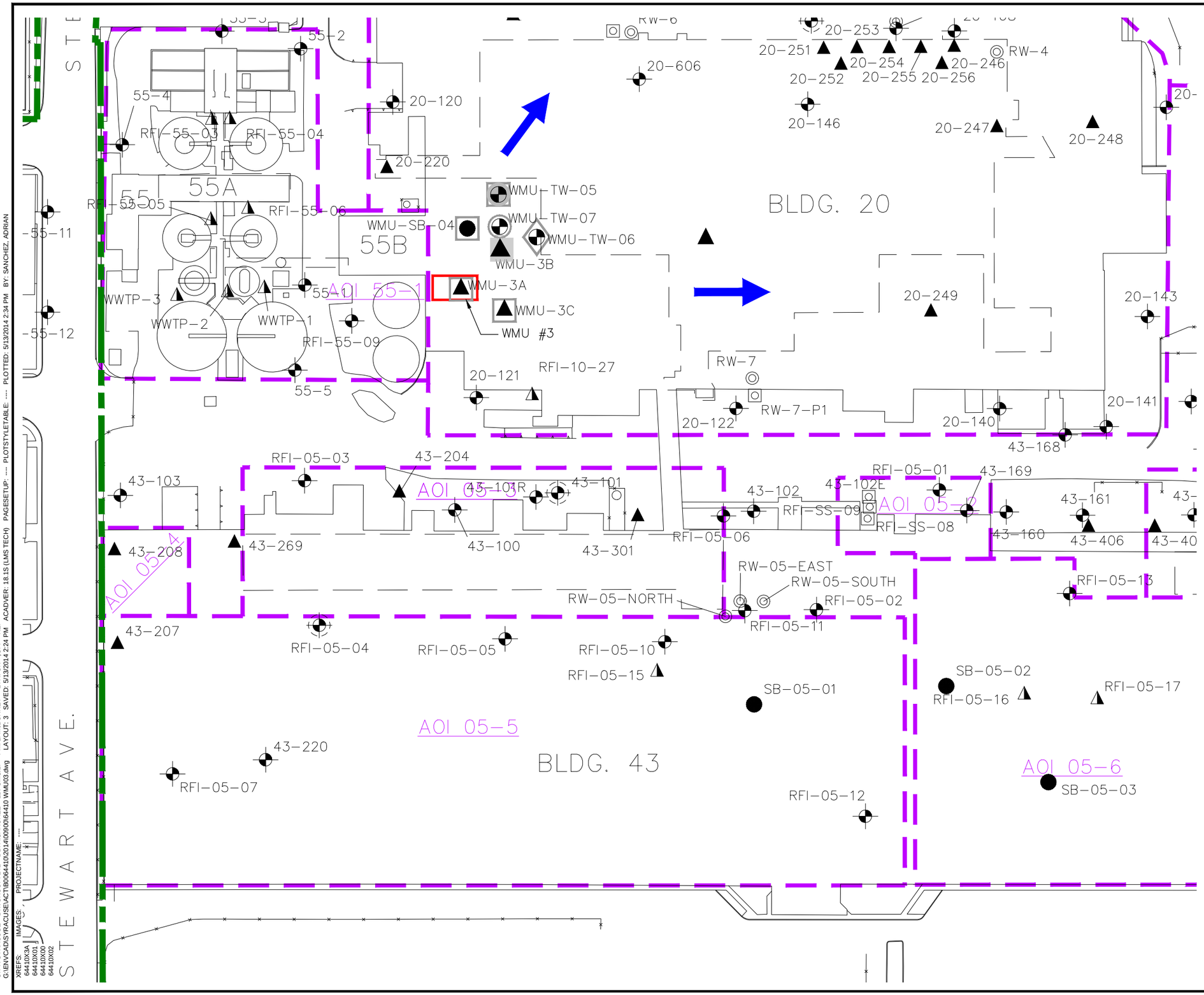
WASTE MANAGEMENT UNIT #3 INVESTIGATION SUMMARY REMEDY RECOMMENDATION MEMO

SITE PLAN

ARCADIS

FIGURE
S-2

CITY: SYRACUSE DIV/GROUP: ENVCAD DB: G. STOWELL L:FORAKER LD: G. STOWELL PIC: C. PETERS PM: M. MAKI TM: M. MAKI LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\0064410\2014\00900\64410_900 G01.DWG LAYOUT: #3 SAVED: 1/29/2014 6:09 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: PDF 11X17 PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 1/29/2014 6:14 PM BY: SANCHEZ, ADRIAN
XREFS: IMAGES: PROJECTNAME: ----
Xref-64410_900X00
Xref-64410_900X02
Xref-64410_900X01



LEGEND:

- PROPERTY BOUNDARY
- APPROXIMATE AOI BOUNDARY
- MONITORING WELL LOCATION
- ABANDONED MONITORING WELL
- SOIL BORING LOCATION
- RFI SOIL BORING LOCATION
- WMU #3 LOCATION
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- GROUNDWATER SAMPLE DOSE NOT EXCEED GSI CRITERIA
- GROUNDWATER SAMPLE EXCEED GSI CRITERIA
- SOIL SAMPLE DOSE NOT EXCEED NSVIA CRITERIA
- SOIL SAMPLE EXCEEDS NSVIA CRITERIA
- SOIL AND GROUNDWATER SAMPLES DO NOT EXCEED CRITERIA

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.. AREAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AS OF 03/19/2014.

0 50' 100'
GRAPHIC SCALE

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

WASTE MANAGMENT UNIT (WMU) #3 INVESTIGATION - SAMPLING LOCATIONS

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FIGURE
S-3

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS/LF PM: L. McBURNEY LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\06441\0\2014\00900\64410 WMU\03.dwg LAYOUT: 3 SAVED: 5/13/2014 2:24 PM BY: SANCHEZ, ADRIAN
PAGESETUP: --- PLOTSTYLETABLE: --- PLOTTED: 5/13/2014 2:34 PM BY: SANCHEZ, ADRIAN
ACADVER: 18.1S (LMS TECH)
XREFS: IMAGES: PROJECTNAME: ---
64410X3A
64410X01
64410X00
64410X02

Appendix T

WMU #7 Remedy
Recommendation Memo

ARCADIS of Michigan, LLC
28550 Cabot Drive
Suite 500
Novi
Michigan 48377
Tel 248 994 2240
Fax 248 994 2241

MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER
Chris Peters, ARCADIS
Steve Gaito, ARCADIS

From:
Micki M. Maki
Victoria Stacey

Date:
August 29, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
WMU #7 - Building 41A, Assembly Plant Waste Storage Tank Area
Investigation Summary and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

---

1. Overview

This Summary and Remedy Recommendation Memo has been prepared on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust by ARCADIS. This memo summarizes investigation activities completed and recommends remedies for Resource Conservation and Recovery Act of 1976 (RCRA) Waste Management Unit #7 (WMU #7) located at former Building 41A in the Southend of the Buick City Site (the Site) located in Flint, Michigan (**Figure T-1**).

1.1 WMU #7 Background

Historically, the Building 41A, Assembly Plant Waste Storage Tank Area (WMU #7) was located at the Southend of the Site north of former Building 40 as shown on the Site Plan (**Figure T-2**). WMU #7 contained four steel underground storage tanks (USTs) used to contain hazardous waste (Tanks 73 and 74) and other waste (Tanks 71 and 72). Tank 71 was a 10,000-gallon UST that stored transmission oil, Tank 72 was a 16,000-gallon UST that stored waste solvents, Tank 73 was a 10,000-gallon UST that stored hazardous chlorinated solvents (F003 and F005), and Tank 74 was a 12,000-gallon UST that stored hazardous paint sludge (F003 and F005). These tanks were aligned end to end, and had a cement

vault above the walkway that housed the associated piping system. Available documentation indicates that Tank 71 was closed in place and Tanks 72, 73, and 74 were removed in January 1987.

A release (C-0471-97) was identified at WMU #7 when the USTs were removed. It is unknown whether the release was associated with the product storage tank or hazardous waste storage tanks. In addition, there are multiple other releases located in the vicinity of WMU #7 including Release #'s C-0375-01, C-0320-01, C-0470-97, and C-0633-91. The impacts of these releases may be co-mingled.

1.2 WMU Closure Sampling Plan and MDEQ Response

In April 2007, a *RCRA Waste Management Unit Closure Status Report* (Closure Status Report) was submitted to the Michigan Department of Environmental Quality (MDEQ) – Waste and Hazardous Materials Division (WHMD) summarizing 10 WMU areas (including WMU #7) and the proposed activities / information required for closure (ARCADIS BBL, 2007). During subsequent communications with the MDEQ in 2009 and 2010, it was determined that separate work plans would be prepared for WMUs in the Northend and the Southend of the Site. The Southend WMU closure work plan was approved by the MDEQ on October 7, 2011. The report and work plan are presented in **Appendix Y**.

In January 2012, investigation activities were completed at WMU #7 and investigation results were submitted to the MDEQ on April 2, 2012 for the *Southend: Certification of Closure for Closure Response Activities at RCRA Waste Management Units* report. In a January 15, 2013 correspondence, the MDEQ determined that the residual contamination at WMU #7 should be addressed through incorporation into the Site-wide Corrective Action activities being conducted pursuant to the Corrective Action Consent Order (No. R8H-5-00-2) with the U.S. Environmental Protection Agency (U.S. EPA) and by placing restrictive covenants on groundwater usage and soil relocation.

2. Site Setting and Data Summary

This section provides a summary of the geology, hydrogeology, analytical data, and extent of impact for the WMU #7.

Figure T-3 presents the locations of the existing and abandoned monitoring wells and soil borings in the WMU #7 area.

2.1. WMU #7 Geology and Hydrogeology

- *Geology:* The soils at WMU #7 consist of primarily fine to medium sand with trace silts to a maximum depth of approximately 15 feet below ground surface (bgs) overlying silt and clay. The presence of sheen was identified in all three borings ranging from 7 to 13.8 feet bgs. The logs for the three borings completed in WMU #7 are attached to this memo.

- *Groundwater Levels:* Groundwater gauging data collected show that the depth to groundwater in this area averages around six feet bgs. Light non-aqueous phase liquid (LNAPL) was not detected in the temporary well installed at WMU7-SB1 nor has it been detected in downgradient monitoring well 40-06R. Monitoring well 40-06R was gauged as part of the annual groundwater sampling program from 2001 through 2011. The groundwater level data are presented in **Appendix X.**

  Based on historic fluid level gauging data, groundwater flow in this portion of the Site is generally to the east and east-southeast.

2.2. Soil and Groundwater Analytical Data

- *Soil:* Three soil borings (WMU7-SB1, WMU7-SB2, and WMU7-SB3) were completed as part of the closure investigation activities. One soil sample was collected from each boring from the native materials beneath the base of the former USTs (approximately 13 to 15 feet bgs) and submitted for analysis of select F-listed waste constituents. Analytical data were compared to applicable Michigan Part 201 non-residential criteria. Analytic concentrations in soil samples collected from borings in the WMU #7 area do not exceed applicable non-residential criteria (**Appendix X**). Although no soil sample concentrations exceed applicable non-residential criteria, sample intervals were not biased toward areas with evidence of impact. The sampling intervals were selected with the onsite MDEQ representative as part of closure investigation activities. Shallow soils in WMU7 will be sampled to confirm the proposed remedy is appropriate.

- *Groundwater:* Groundwater samples were not collected during WMU closure activities; however, the groundwater data from downgradient monitoring well 40-06R was reviewed. The groundwater exceeded groundwater/surface water interface (GSI) criteria from cyanide in all three samples collected (24-440/5.2 ug/L). However, the Outfall 009 and 010 storm sewers, which service this area, are slated for bulkheading, which will eliminate the GSI pathway. Additionally, it is unknown

whether the cyanide detections are associated WMU #7 or one of the other releases (C-0375-01, C-0320-01, C0470-97, and C-0633-91) in the area. The proposed shallow soil sampling will include cyanide analysis. Applicable analytical data can be found in **Appendix X**.

3. Remedy Recommended

The remedies recommended to address the impacts at WMU #7 are installation of bulkheads and institutional controls. These remedies will eliminate the GSI pathway in the short term and prevent future worker exposure in the long term.

3.1 Bulkhead Installation at Outfall 009 and 010

Bulkheads will be installed at the Outfall 009 and Outfall 010 storm sewers to eliminate this potential GSI pathway. Bulkheading activities are scheduled to be completed in this portion of the Site in Spring 2014. The locations of the bulkheads are presented on **Figure 6 of the main report.**

3.2 *Institutional Controls*

The following area-specific institutional control, in addition to Site-wide institutional controls, will be necessary to limit potential for future exposure:

- Prohibit any activity that could create a preferential pathway for migration, exacerbate existing site conditions, or affect the integrity, effectiveness, and/or operation of any corrective measure including storm sewer bulkheads, as shown on **Figure 6 of the main report.**

Boring Logs

Date Start/Finish: 1/23/2012
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Rotosonic/HA/Vac Truck
Sampling Method: Core
Rig Type: NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 16' bgs
Surface Elevation: NA

Descriptions By: Megan Meckley

Well/Boring ID: **WMU7_SB1**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0							(0-1) CONCRETE	
					1.7			(1-2) SAND; medium, trace medium granule, subrounded, well sorted; dry, light yellow brown (10YR 4/6).	
		1	0-5	5.0	0.6			(2-4) SAND; medium, little clay, trace medium granule, subrounded, poorly sorted; dry, light yellow brown (10YR 4/6).	
					0.1			(4-6) SAND; medium, little silt, small to large granule, subrounded to subangular, poorly sorted; dry, light yellow brown (10YR 4/6).	
5	-5								
					0.3			(6-11.5) SAND; medium to coarse, little small to medium granule, trace silt, subrounded to subangular, poorly sorted; moist, light yellow brown (10YR 4/4).	
		2	5-10	3.0	11.7			NOTE: wet at 9' bgs.	Borehole backfilled with soil cuttings.
10	-10								
					0.1			(11.5-12.5) SAND; coarse, little medium to large granule, trace silt, subrounded, poorly sorted; wet, gray brown (2.5YR 4/3).	
		3	10-15	5.5	7.8			(12.5-13.8) SILT; high plasticity, rapid dilatancy, some sand, very fine to fine, soft; wet, gray (GLEY1 3/N). NOTE: odor and sheen.	
					0.3			(13.8-16) SILT; some clay, low plasticity, no dilatancy, medium stiff; dry, light gray (5YR 4/1).	
15	-15								
		4	15-16	1.5					
					2.3			End of boring 16' bgs.	

Remarks: bgs = below ground surface

Hand auger 0-5' bgs
Groundwater encountered at 9' bgs

ARCADIS
Infrastructure · Water · Environment · Buildings

Date Start:
Date Finish:
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Rotosonic/HA/Vac Truck
Sampling Method: Sonic Core
Rig Type: NA
Water Level Start (ft. bgs.):
Water Level Finish (ft. btoc.):

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 16' bgs
Surface Elevation: NA

Descriptions By: Megan Meckley

Well/Boring ID: **WMU7_SB2**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

Weather Conditions:

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0							(0.0 - 1.0') CONCRETE		Borehole capped with concrete.
				0.2			(1.0 - 2.0') SAND; fine to medium, trace clay, trace small granule, subangular, poorly sorted; dry, brown (10YR 4/4).		
	1	0-5	5.0	0.2			(2.0 - 4.0') SAND; fine to medium, trace small granule, subrounded, well sorted; dry, brown (10YR 4/4).		
				0.5			(4.0 - 11.5') SAND; fine to coarse, trace small to large granule, subrounded to subangular; dry, brown (10YR 4/4).		
5 / -5									
				0.3					
	2	5-10	1.9						
				0.6			NOTE: wet at 8.5' bgs		Borehole backfilled with bentonite chips.
10 / -10									
				0.6			(11.5 - 12.5') SAND; medium, trace silt, trace clay, trace small granule, poorly sorted; wet, brown (2.5YR 4/5) with dark brown (5YR 4/2). NOTE: Odor and sheen from 11.5-13.2' bgs.		
	3	10-15	6.2	0.7			(12.5 - 13.2') SAND; fine to medium, trace small to large granule, subrounded, trace silt; moist, dark brown to black (7.5YR 2.5/1).		
							(13.2 - 14.2') CLAY; some silt, low plasticity, no dilantancy; dry, very stiff, light gray (10YR 4/1).		
				5.9			(14.2 - 16.0') SILT, some clay, low plasticity, no dilatancy; dry, stiff, light gray (10YR 5/1).		
15 / -15									
	4	15-16	1.7	0.9					
							End of boring 16' bgs.		

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Remarks: bgs = below ground surface
HA = Hand auger

Hand auger 0-5' bgs
Groundwater encountered at 8.5' bgs

Date Start:
Date Finish:
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Rotosonic/HA/Vac Truck
Sampling Method: Sonic Core
Rig Type: NA
Water Level Start (ft. bgs.):
Water Level Finish (ft. btoc.):

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth (ft. bgs.): 16' bgs
Surface Elevation: NA

Descriptions By: Megan Meckley

Well/Boring ID: **WMU7_SB3**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

Weather Conditions:

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0							(0.0 - 1.0') CONCRETE		Borehole capped with concrete.
				0.1			(1.0 - 2.0') SAND; medium to coarse, trace small granule, trace large pebble, subrounded to subangular, poorly sorted; dry, brown (10YR 4/4).		
	1	0-5	5.0	2.9			(2.0 - 6.5') SAND; fine to medium ,trace silt, well sorted; dry, light brown (10YR 5/4).		
				0.6			NOTE: wet at 6.5' bgs		
5 / -5				1.7			(6.5 - 8.2') SAND, fine to medium, little silt, trace small granule, subangular, wet, gray to brown (10yr, 4/2).		
	2	5-10	3.9				NOTE: Odor and sheen from 7.0-12.0' bgs.		Borehole backfilled with bentonite chips.
				0.3			(8.2 - 11.0') SAND, medium to coarse, little small to medium granule, subangular, poorly sorted, wet, gray to black (10yr, 3/1).		
10 / -10				1.2			(11.0 - 12.0') SAND, medium to coarse, trace clay, little small to medium granule, subangular, poorly sorted, wet, dark gray brown (10yr, 2/1).		
	3	10-15	NA	0.5			(12.0 - 15.0') SAND, coarse, little small granule, trace clay, trace large pebble, subrounded, poorly sorted, wet (10yr, 3/1).		
				0.6	X				
15 / -15	4	15-16	NA	0.3			(15.0 - 16.0') SILT and CLAY; trace fine sand, medium plasticity, no dilatancy, medium stiff, dry, light gray (2.5yr, 4/1).		
							End of boring 16' bgs.		

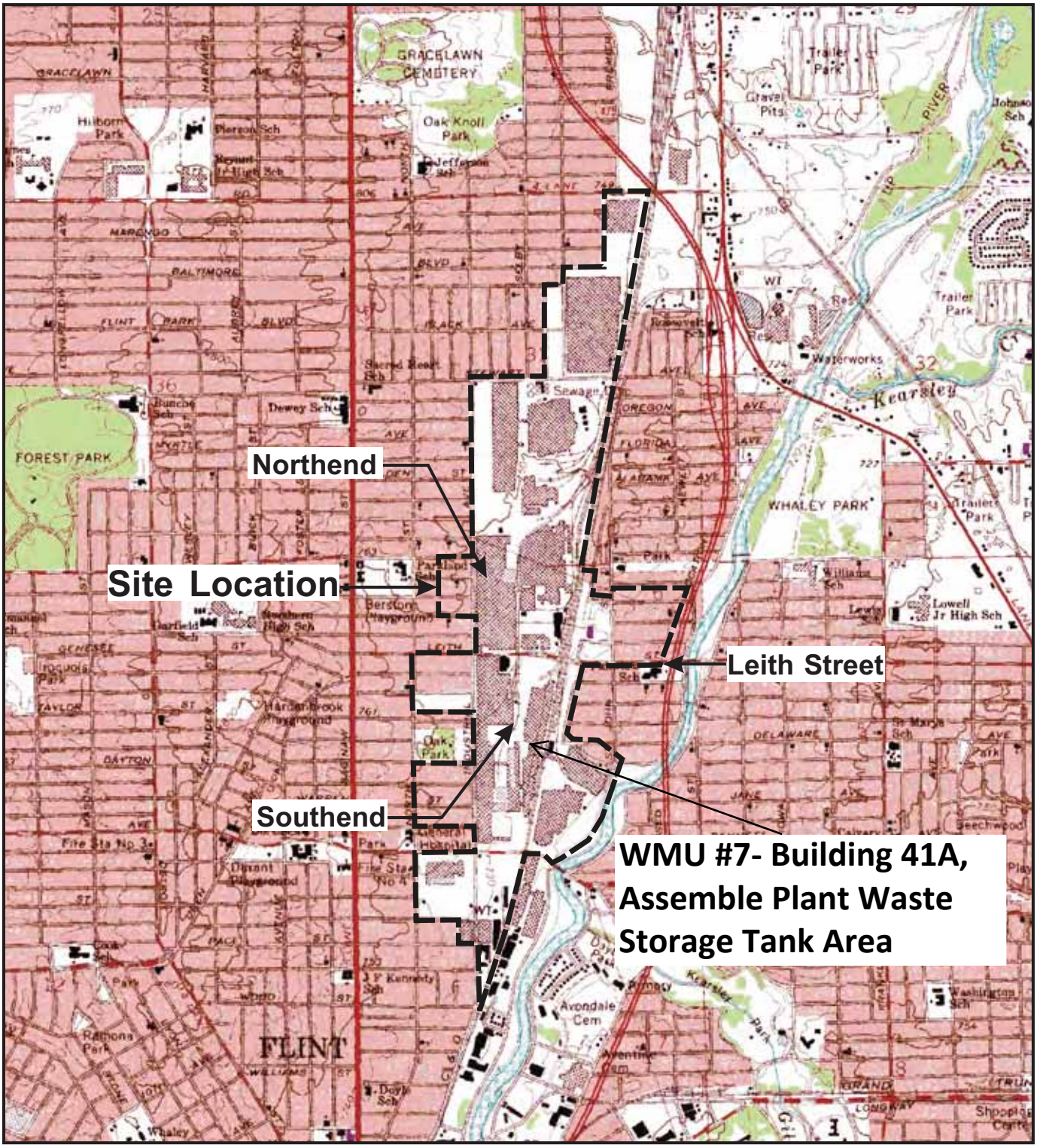
ARCADIS
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Remarks: bgs = below ground surface
HA = Hand auger

Hand auger 0-5' bgs
Groundwater encountered at 6.5' bgs

ARCADIS

Figures



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quad., Flint North, Mich. (1969, Photorevised 1975).

2000' 0 2000'

Approximate Scale: 1" = 2000'



Area Location

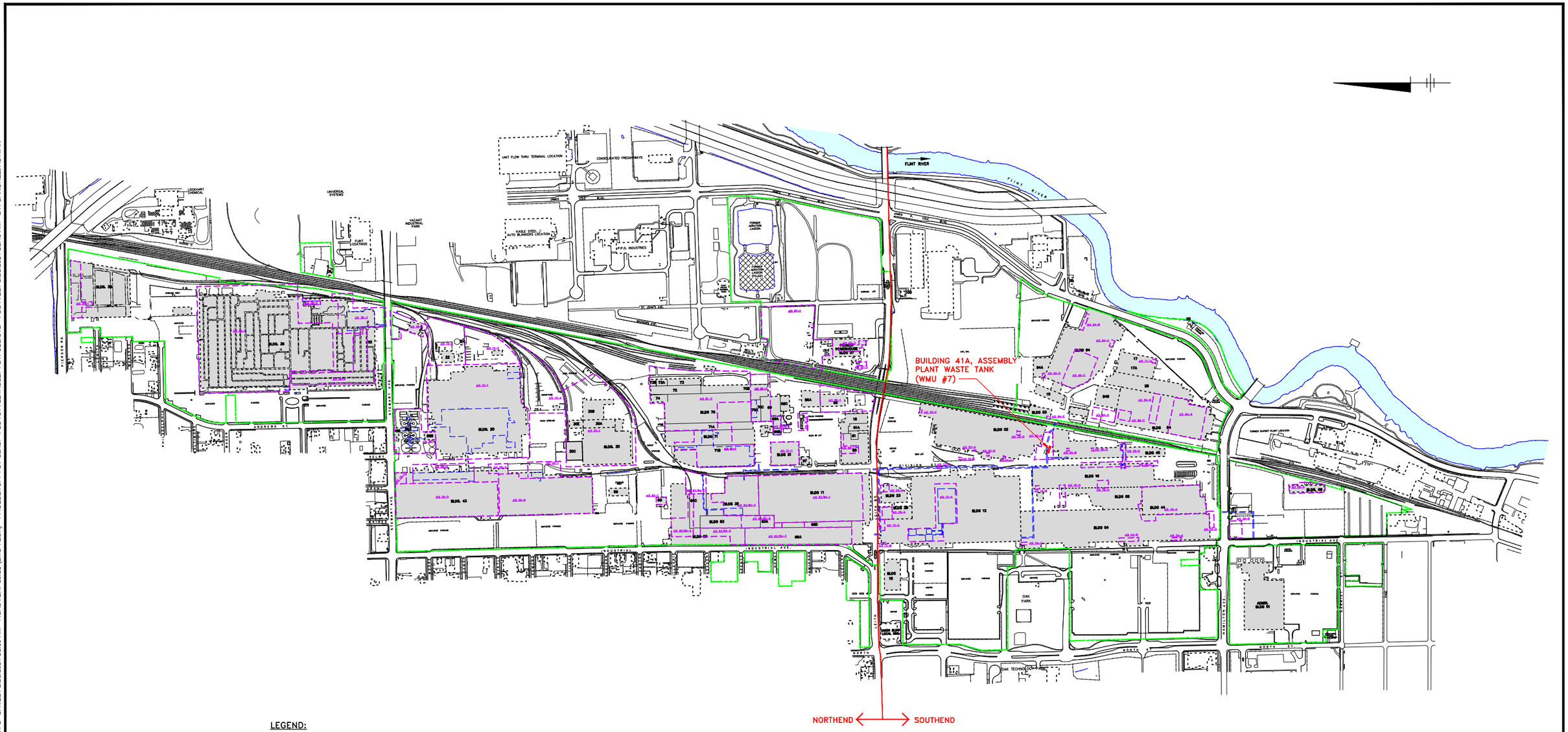
RACER TRUST
BUICK CITY, FLINT, MICHIGAN

SITE LOCATION MAP

ARCADIS

FIGURE
T-1

03/12/2012 SYRACUSE, NY-ENV/CAD-141-DJHOWES
B0064410/2012/01202/CDR/64410N01.CDR



LEGEND:

- PROPERTY BOUNDARY
- APPROXIMATE AOI BOUNDARY
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE WMU AREA

NOTES:

1. IN ADDITION TO THE EXISTING HISTORICAL SITE DATA, THE WASTE MANAGEMENT UNIT LOCATIONS ARE ALSO BASED ON GIS DATA PROVIDED BY THE MDNRE IN JANUARY 2010.
2. BASE MAP INFORMATION FROM A SURVEY BY BMJ INC., DATED APRIL 2001, AT A SCALE OF 1:100.

RACER TRUST
BUICK CITY, FLINT, MICHIGAN

WASTE MANAGEMENT UNIT #7 INVESTIGATION SUMMARY REMEDY RECOMMENDATION MEMO

SITE PLAN

ARCADIS

FIGURE
T-2

CITY: SYRACUSE DIV/GROUP: ENVCAD DB: G. STOWELL L:FORAKER LD: G. STOWELL PIC: C. PETERS PM: M. MAKI TM: M. MAKI LYR: ON=*;OFF=*REF*
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Xref-64410_900X00
Xref-64410_900X02
Xref-64410_900X01

BLDG 02

BLDG 40

AOI 40-A

BUILDING 41A, ASSEMBLY
PLANT WASTE TANK
(WMU #7)

02-205

02-204

40-4R

40-4

02-201

02-202

02-203

40-202

40-6

40-6R

40-203

WMU7_SB3

WMU7_SB2

40-204

WMU7_SB1

40-5

40-2

LEGEND:

- APPROXIMATE AOI BOUNDARY
- APPROXIMATE WMU AREA
- WMU #7 AREA SOIL SAMPLING LOCATION
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW

NOTES:

1. IN ADDITION TO THE EXISTING HISTORICAL SITE DATA, THE WASTE MANAGEMENT UNIT LOCATIONS ARE ALSO BASED ON GIS DATA PROVIDED BY THE MDNRE IN JANUARY 2010.
2. BASE MAP INFORMATION FROM A SURVEY DATED APRIL 2001 (AT A SCALE OF 1:100) AND SOIL SAMPLING LOCATIONS FROM A SURVEY DATED JANUARY 2012. BOTH SURVEYS WERE COMPLETED BY BMJ INC.
3. BASED ON INFORMATION AS OF 03/19/2014.

0 10' 20'
GRAPHIC SCALE

RACER TRUST
BUICK CITY, FLINT, MICHIGAN
WASTE MANAGEMENT UNIT #7 INVESTIGATION SUMMARY REMEDY RECOMMENDATION MEMO

WMU # 7 SOIL SAMPLING LOCATIONS

ARCADIS

FIGURE
T-3

CITY: SYRACUSE DIV/GROUP: ENVCAD DB: G.STOWELL L.FORAKER LD: G.STOWELL PIC: C.PETERS PM: M.MAKI TM: M.MAKI LYR: ON=*; OFF=*REF*
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Xref-64410_900X00
Xref-64410_900X01

Appendix T - Addendum No. 1

February 15, 2016

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Suite 500
Novi
Michigan 48377
Tel 248 994 2240
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MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER

From:
Micki M. Maki

Date:
February 15, 2016

ARCADIS Project No.:
B0064410.2016

Subject:
Addendum to Remedy Recommendation Report Appendix T – WMU #7 Investigation Results Summary and Remedy Recommendations
RACER Buick City Site, Flint, Michigan

Introduction

This Addendum No. 1 to Remedy Recommendation Report Appendix T presents a summary of investigation data collected at the Waste Management Unit (WMU) #7 Area from March 19, 2014 through December 31, 2015 at the Buick City Site (Site) located in Flint, Michigan.

Summary of Investigation Activities

Additional investigation activities included installing three monitoring wells (MW-WMU7-4 through MW-WMU7-6) at WMU #7 to address comments received from the United State Environmental Protection Agency (USEPA) on March 17, 2014. The comments requested additional investigation of impacted soils identified as having odors and sheens in the boring logs for WMU7-SB1 through WMU7-SB3 from 7 to 14 feet below ground surface (ft bgs). As the impacted soils are below the groundwater table the impacts were evaluated by installing and sampling groundwater monitoring wells.

In November 2014 monitoring wells MW-WMU7-4, MW-WMU7-5, and MW-WMU7-6 (**Figure T-A1-1**) were installed at WMU #7 to depths of 14 ft bgs (MW-WMU7-6) and 15 ft bgs (MW-WMU7-4 and MW-WMU7-

5). In March 2015 a groundwater sample was collected from each well and submitted for F-scan analysis by USEPA Methods 8260 and 8270.

Summary of Data Evaluation

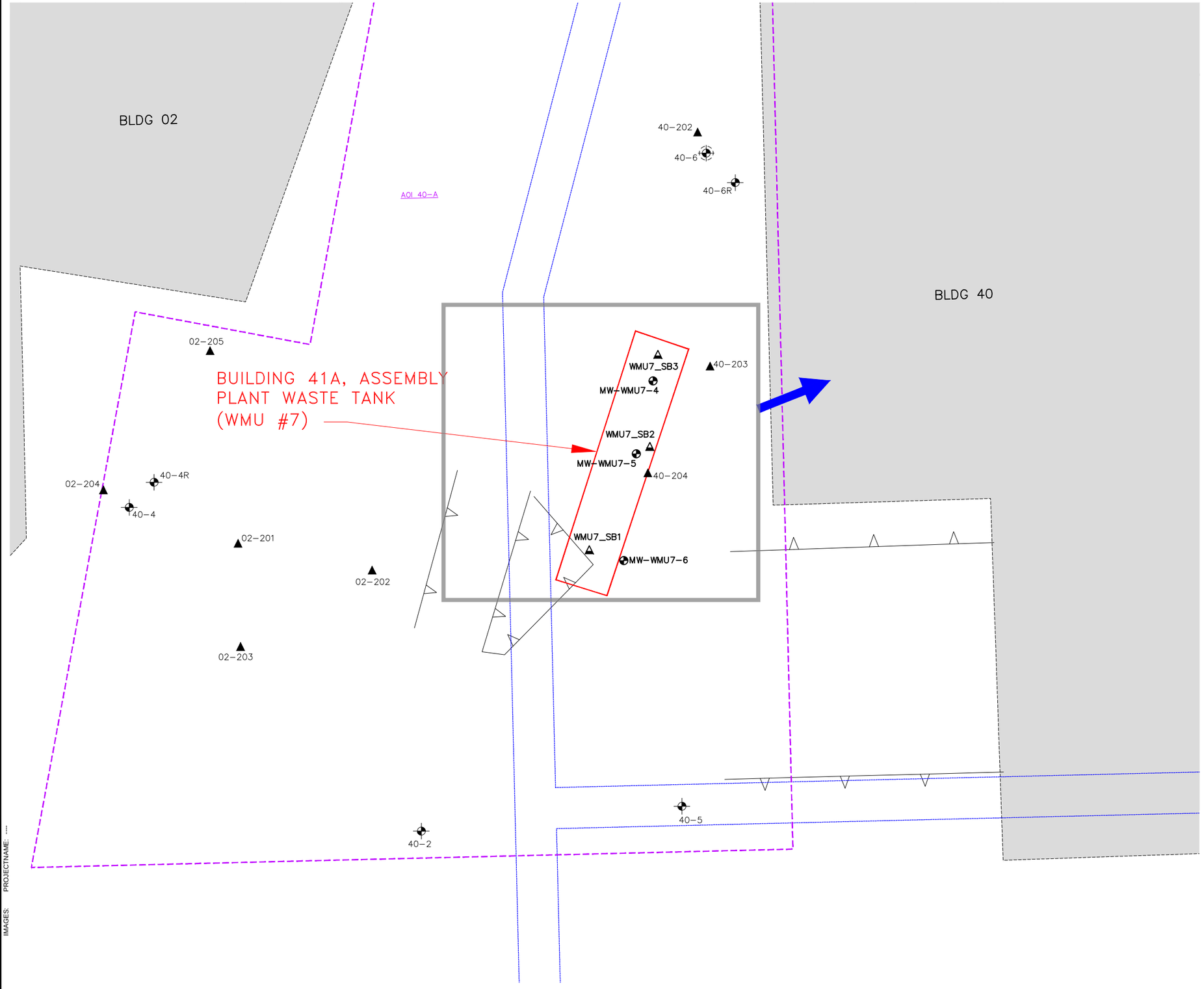
No VOCs or SVOC were detected in the groundwater samples collected from MW-WMU7-04, MW-WMU7-05, and MW-WMU7-06 (**Table T-A1-1**).

Table T-A1-1

Summary of Additional Soil Investigation
Remedy Recommendation Report Appendix T – WMU #7 Groundwater Impacts
RACER Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GSI	NGVIA	WS	MW-WMU7-4 03/20/15	MW-WMU7-5 03/20/15	MW-WMU7-6 03/20/15
VOC								
1,1,1-Trichloroethane	ug/L	- -	89	1,300,000	1,330,000	<1	<1	<1
1,1,2-Trichloroethane	ug/L	- -	330	110,000	4,420,000	<1	<1	<1
1,2-Dichlorobenzene	ug/L	- -	13	160,000	156,000	<1	<1	<1
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	- -	2,200	240,000,000	240,000,000	<10	<10	<10
2-Ethanoxyethanol	ug/L	- -	- -	- -	- -	<10,000	<10,000	<10,000
2-Nitropropane	ug/L	- -	- -	- -	- -	<50	<50	<50
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	- -	- -	20,000,000	20,000,000	<10	<10	<10
Acetone	ug/L	15,000,000	1,700	1,000,000,000	1,000,000,000	<10	<10	<10
Benzene	ug/L	68,000	200	35,000	1,750,000	<1	<1	<1
Carbon disulfide	ug/L	13,000	- -	550,000	1,190,000	<1	<1	<1
Carbon tetrachloride	ug/L	- -	45	2,400	793,000	<1	<1	<1
Chlorobenzene	ug/L	160,000	25	470,000	472,000	<1	<1	<1
Cyclohexanone	ug/L	- -	- -	3,300	23,000,000	<100	<100	<100
Ethyl acetate	ug/L	4,200,000	- -	64,000,000	64,000,000	<50	<50	<50
Ethyl ether	ug/L	650,000	- -	61,000,000	61,000,000	<1	<1	<1
Ethylbenzene	ug/L	43,000	18	170,000	169,000	<1	<1	<1
Isobutanol (isobutyl alcohol)	ug/L	- -	- -	76,000,000	76,000,000	<50	<50	<50
m&p-Xylene	ug/L	- -	- -	- -	- -	<1	<1	<1
Methylene chloride	ug/L	- -	1,500	1,400,000	17,000,000	<1	<1	<1
N-Butyl alcohol	ug/L	47,000,000	9,800	- -	74,000,000	<50	<50	<50
o-Xylene	ug/L	- -	- -	- -	- -	<1	<1	<1
Tetrachloroethene	ug/L	- -	60	170,000	200,000	<1	<1	<1
Toluene	ug/L	61,000	270	530,000	526,000	<1	<1	<1
Trichloroethene	ug/L	- -	200	4,900	1,100,000	<1	<1	<1
Trichlorofluoromethane (CFC-11)	ug/L	- -	- -	1,100,000	1,100,000	<1	<1	<1
Trifluorotrichloroethane (Freon 113)	ug/L	- -	32	170,000	170,000	<1	<1	<1
SVOC								
2-Methylphenol	ug/L	- -	- -	- -	- -	<300	<300	<300
3&4-Methylphenol	ug/L	- -	- -	- -	- -	<300	<300	<300
Nitrobenzene	ug/L	- -	180	550,000	2,090,000	<300	<300	<300
Pyridine	ug/L	81,000	- -	12,000	300,000	<300	<300	<300
Miscellaneous								
Methanol	ug/L	4,500,000	590,000	29,000,000	29,000,000	<800 O	<800 O	<800 O

Notes:
ug/L - micrograms per liter
FE - Flammability Explosivity Screening Level
GSI - Groundwater/ Surface water interface Criteria
NGVIA - Nonresidential Groundwater Volitalization to Indoor Air Criteria
WS - Water Solubility
O - Analyzed by outside laboratory
Shaded and bolded results exceed one or more criteria.



LEGEND:

- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- APPROXIMATE AOI BOUNDARY
- APPROXIMATE WMU AREA
- WMU #7 AREA SOIL SAMPLING LOCATION
- WMU #7 AREA MONITORING WELL LOCATION
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW

NOTES:

1. IN ADDITION TO THE EXISTING HISTORICAL SITE DATA, THE WASTE MANAGEMENT UNIT LOCATIONS ARE ALSO BASED ON GIS DATA PROVIDED BY THE MDNRE IN JANUARY 2010.
2. BASE MAP INFORMATION FROM A SURVEY DATED APRIL 2001 (AT A SCALE OF 1:100) AND SOIL SAMPLING LOCATIONS FROM A SURVEY DATED JANUARY 2012. BOTH SURVEYS WERE COMPLETED BY BMJ INC.
3. BASED ON INFORMATION AS OF 02/15/2016.

0 10' 20'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

WMU # 7 SOIL SAMPLING LOCATIONS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
T-A1-1

CITY: SYRACUSE DIV/GROUP: ENV DB: A.SANCHEZ LD: ALS/GMS PIC: C.S.PETERS PM: C.KIKER TM: C.KIKER LYR: ON=*;OFF=*REF*
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IMAGES: PROJECTNAME: ----

Appendix U

WMU #10 Remedy
Recommendation Memo

ARCADIS of Michigan, LLC
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Tel 248 994 2240
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MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER
Chris Peters, ARCADIS
Steve Gaito, ARCADIS

From:
Micki M. Maki
Victoria Stacey

Date:
August 29, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
WMU #10 - Factory 86, Building 04, Assembly Plant Waste Storage Tanks
Summary and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

---

1. Overview

This Summary and Remedy Recommendation Memo has been prepared on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust by ARCADIS. This summarizes investigation activities completed and recommends remedies for Resource Conservation and Recovery Act of 1976 (RCRA) Waste Management Unit #10 (WMU #10) located at former Factory 86 in the Southend of the Buick City Site (the Site) located in Flint, Michigan (**Figure U-1**).

1.1 WMU #10 Background

Historically, the Factory 86, Building 04, Assembly Plant Waste Storage Tanks (WMU #10) was located at the Southend of the Site, south of Building 04 as shown on the Site Plan (**Figure U-2**). WMU #10 contained four 15,000-gallon underground storage tanks (USTs) (Tanks #76 through #79) and Tank #80 whose size and contents are unknown. The tanks were installed in 1946 and removed in 1984. Three tanks were used to store hazardous waste and one stored nonhazardous painting-related waste: Tank #76 contained waste Flo-coat primer, Tank #77 contained Flo-coat primer (D001 and D008), Tank #78 was used to store non-hazardous lubricating oil, and Tank #79 contained waste paint thinner (F003 and F005). A concrete basement-type enclosure was built around the tanks.

A release (C-0924-91) was identified at WMU #10 during UST removal activities. In 1985, approximately 2,500 to 3,000 cubic yards of underlying soil was removed along with Tanks 76 through 80. Oil was observed seeping into the excavation during the removal at a depth of approximately 10 to 15 feet below ground surface (bgs). A French drain style collection system was installed in the excavation to collect residual oil for off-site disposal. After two years of operation, only small quantities of oil were being collected by this system; therefore, due to limited recovery rates, its operation was discontinued. The quantity of oil collected is not known.

There were additional releases in the vicinity of WMU #10 including Release C-0922-91 at the Hamilton Avenue Tank Farm and a historic release from former Tanks #105 and 131 located east of WMU #10. The impacts of these releases are likely co-mingled.

1.2 WMU Closure Sampling Plan and MDEQ Response

In April 2007, a *RCRA Waste Management Unit Closure Status Report* (Closure Status Report) was submitted to the Michigan Department of Environmental Quality (MDEQ) – Waste and Hazardous Materials Division (WHMD) summarizing 10 WMU areas (including WMU #10) and the proposed activities / information required for closure (ARCADIS BBL, 2007). During subsequent communications with the MDEQ in 2009 and 2010, it was determined that separate work plans would be prepared for WMUs in the Northend and the Southend of the Site. The Southend WMU closure work plan was approved by the MDEQ on October 7, 2011.

In January 2012, investigation activities were completed at WMU #10 and investigation results were submitted to the MDEQ on April 2, 2012 in the *Southend: Certification of Closure for Closure Response Activities at RCRA Waste Management Units* report. In a January 15, 2013 correspondence, the MDEQ determined that the residual contamination at WMU #10 should be addressed through incorporation into the Site-wide Corrective Action activities being conducted pursuant to the Corrective Action Consent Order (No. R8H-5-00-2) with the U.S. Environmental Protection Agency (EPA) and by placing restrictive covenants on groundwater usage and soil relocation.

2. Site Setting and Data Summary

This section provides a summary of the geology, hydrogeology, analytical data, and extent of impact for the WMU #10.

Figure 3 presents the locations of the existing and abandoned monitoring wells and soil borings in the WMU #10 area.

2.1 WMU #10 Geology and Hydrogeology

- *Geology:* The soils at WMU #10 consist of primarily fine to medium sand with trace silts to a maximum depth of approximately 22 feet bgs that are interbedded by silt with trace clay. Six soil borings were completed within the footprint of WMU #10. Boring logs from three of these locations indicated evidence of a product sheen from as shallow as 13.5 feet bgs and as deep as 18.1 feet bgs. The logs for the six soil borings completed at WMU #10 are attached to this memo.

- *Groundwater Levels:* Groundwater gauging data collected show that the depth to groundwater in this area averages around seven feet bgs. Light non-aqueous phase liquid (LNAPL) was not detected in the two temporary wells installed in 2011 (WMU10-SB-4 and WMU10-SB-5) or in permanent, downgradient monitoring wells (04-1 through 04-5) through 2012. The groundwater level data are presented in **Appendix X.**

  Based on historic fluid level gauging data, groundwater flow in this portion of the Site is generally to the east and east-southeast.

2.2 Soil and Groundwater Analytical Data

- *Soil:* Six soil borings (WMU10-SB1 through WMU-SB6) were completed as part of closure investigation activities. Two soil samples were collected from each of the soil borings completed at WMU #10 and submitted for analysis of select D- and F-Listed waste constituents. The sample analyte list was approved by the MDEQ and the sample intervals were selected with the MDEQ on-site representative. Analytical data were compared to applicable Michigan Part 201 non-residential criteria. The two soil samples collected from WMU10-SB5 exceeded groundwater/surface water interface protection criteria (GSIP) for ethylbenzene (11/0.36 mg/kg), toluene (118/5.4 mg/kg), and/or xylenes (1.3-62/0.82 mg/kg).

- *Groundwater:* Groundwater samples collected downgradient of WMU #10 were compared to applicable Michigan Part 201 non-residential criteria. Groundwater samples collected from downgradient monitoring wells were submitted for laboratory analysis of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals and/or polychlorinated biphenyls (PCBs). Three samples collected in 2001 detected constituents at concentrations which exceed groundwater surface water interface (GSI) criteria. Ethylbenzene was detected above GSI criteria (24/18 ug/L) in a sample collected from monitoring well 04-02. Copper (dissolved) was detected above GSI criteria (25/21.6 ug/L) in a sample collected from monitoring well 04-3. Selenium was detected above GSI criteria (13/5 ug/L) in a sample collected monitoring well 04-1. It is unknown whether these exceedances are associated with WMU #10 or one of the other releases in the area. Applicable analytical data is presented in **Appendix X**.

WMU #10 is located in the Outfall 011 drainage area. Concentrations in samples collected from the Outfall 011 storm sewer as part of the Site's NPDES Plus Monitoring Program (NPMP) from 2009 through 2013 do not exceed GSI criteria. As there are no exceedances at the GSI compliance point for Outfall 011, the exceedances of GSI criteria in soil and monitoring well samples are not applicable. Please refer to **Appendix BB** for additional discussion of the GSI pathway and NPMP sampling.

3. Remedy Recommended

The remedy recommended to address the oil-impacted soils associated with WMU #10 is establishing institutional controls.

3.1 Institutional Controls

The following area-specific institutional controls, in addition to Site-wide institutional controls, will be necessary to limit potential for future exposure:

- Notify future owners to the potential presence of a listed hazardous waste beneath WMU #10.

Boring Logs

Date Start/Finish: 1/24/2012
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Rotosonic/HA/Vac Truck
Sampling Method: Sonic Core
Rig Type: NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 18' bgs
Surface Elevation: NA

Descriptions By: Megan Meckley

Well/Boring ID: **WMU10_SB1**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0							(0-1) CONCRETE	Borehole capped with concrete.
		1	0-5	5.0	0.7			(1-5) SAND; medium, trace clay, well sorted; dry, brown (10YR 5/8).	
					1.9				
5	-5				1.2			(5-15.2) SAND; medium, trace clay, trace small to medium granule, subangular, poorly sorted; dry, brown (10YR 5/8)	
		2	5-10	3	1.0			NOTE: wet at 8.5' bgs	Borehole backfilled with bentonite chips.
10	-10				0.3				
		3	10-15	3	0.7				
					1.0				
15	-15				1.8			(15.2-15.8) GRAVEL; small to medium granule, subrounded; wet, gray to black. NOTE: sheen.	
		4	15-18	4				(15.8-17) SAND; very fine to fine, little clay, trace silt, trace small to medium granule, subrounded to subangular; wet, gray to brown (2.5YR 4/2). NOTE: sheen.	
					1.2			(17-17.2) SAND; very fine to fine, little clay, trace coarse sand, trace silt, trace small to medium granule, subrounded to subangular; wet, gray to brown (2.5YR 4/2).	
								(17.2-18) SILT; some clay, low plasticity, no dilatancy, little very fine sand; dry, stiff to very hard, gray (2.5YR 4/1).	
								End of boring 18' bgs.	

Remarks: bgs = below ground surface
HA - Hand Auger

Hand auger from 0-5' bgs
Groundwater encountered at 8.5' bgs
No order observed

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Date Start/Finish: 1/24/2012
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Rotosonic/HA/Vac Truck
Sampling Method: Sonic Core
Rig Type: NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 18' bgs
Surface Elevation: NA

Descriptions By: Megan Meckley

Well/Boring ID: **WMU10_SB2**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
					0.3			(0-1) CONCRETE	Borehole capped with concrete.
		1	0-5	5.0				(1-3) SAND; medium, trace clay, well sorted, dry; brown (10YR 4/6).	
					0.7			(3-12) SAND; medium, trace clay, well sorted; moist, brown (10YR 4/6).	
5	-5				0.5				
		2	5-10	6.0	0.4				
					0.3			(12-13) SAND; medium, trace silt, trace clay, poorly sorted, medium gray (2.5YR 4/2)	Borehole backfilled with bentonite chips.
10	-10							NOTE: wet at 10' bgs	
		3	10-15	7.0	0.7				
					0.3			(13-14.8) CONCRETE; light gray (5YR 7/1) with slight red (5YR 5/2).	
15	-15				2.3			(14.8-17.5) SILT; non plastic, no dilatancy, trace sand, very fine, trace small granule, subangular; moist, very stiff, gray.	
		4	15-18	2.5	1.2			(17.5-17.7) SAND; coarse, little silt, trace small granule, poorly sorted; moist, gray (7.5YR 4/2).	
								(17.7-18) SAND; very fine, some silt, trace clay, trace small granule, subangular, poorly sorted; dry, gray (10YR 4/2).	
								End of boring 18' bgs.	
20	-20								

Remarks: bgs = below ground surface
HA - Hand Auger

Hand auger from 0-5' bgs
Groundwater encountered at 10' bgs
No odor or staining observed

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Date Start/Finish: 1/24/2012
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Rotosonic/HA/Vac Truck
Sampling Method: Sonic Core
Rig Type: NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 18' bgs
Surface Elevation: NA

Descriptions By: Megan Meckley

Well/Boring ID: **WMU10_SB3**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
					0.6			(0-1) CONCRETE	Borehole capped with concrete.
		1	0-5	5.0				(1-3) SAND; fine to medium, trace clay, well sorted; dry, brown (10YR 4/4).	
					1.3			(3-10) SAND; medium, trace clay, trace small to large pebble, subrounded, poorly sorted; moist, brown (10YR 4/6).	
5	-5				0.5				
		2	5-10	1.3	0.7				
					0.8				Borehole backfilled with bentonite chips.
10	-10							(10-11.5) SAND; medium, trace clay, trace small to large pebble, subrounded, poorly sorted; wet, brown (10YR 4/6).	
					2.6			NOTE: wet at 10' bgs	
		3	10-15	7.0				(11.5-12) SAND; coarse, trace silt, little small to large granule, subangular, trace clay, poorly sorted; moist, light gray.	
					1.3			(12-14) CONCRETE	
								(14-14.5) SILT; low plasticity, some sand, fine to medium, soft to medium stiff, gray.	
15	-15							(14.5-15) SAND; coarse, little small to medium granule, subangular, trace silt, poorly sorted; moist, gray.	
					103.3			(15-18) SILT; low to no plasticity, no dilatancy, little sand, very fine to fine, trace medium granule, subrounded, dry, gray.	
		4	15-18	2.5	10.9				
								End of boring 18' bgs.	
20	-20								

Remarks: bgs = below ground surface
HA - Hand Auger

Hand auger from 0-5' bgs
Groundwater encountered at 10' bgs
No odor or staining observed

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Date Start/Finish: 1-25-2012
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Rotosonic/HA/Vac Truck
Sampling Method: Macrocore
Rig Type: NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 22' bgs
Surface Elevation: NA

Descriptions By: Megan Meckley

Well/Boring ID: **WMU10_SB4**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	1	0-5	5.0	0.6			(0-3) GRAVEL FILL	
								(3-4) CONCRETE	
								(4-14) SAND; medium, trace clay, well sorted; dry, brown (10YR 4/6).	
5	-5	2	5-10	2.3	0.4				
					0.3				
					0.7				
10	-10				0.4			NOTE: wet at 10' bgs.	

Bentonite (1-14' bgs)
2" well casing (0-16' bgs)

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Remarks: bgs = below ground surface
HA - Hand Auger

Hand auger from 0-5' bgs
Groundwater encountered at 10' bgs
1/25/12: Temporary Monitoring Well installed to monitor the presence of free product (screened from 16-21' bgs).
1/26/12: Tempory well pulled and boring abandoned.

Date Start/Finish: 1-25-2012
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Rotosonic/HA/Vac Truck
Sampling Method: Macrocore
Rig Type: NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 22' bgs
Surface Elevation: NA

Descriptions By: Megan Meckley

Well/Boring ID: **WMU10_SB4**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
				0.7				
	3	10-18	7.9				(14-16) CONCRETE	
15 -15				5.2			(16-16.3) SAND; medium, well sorted; wet, black (GLEY 2.5/N). NOTE: odor and sheen.	
							(16.3-17.5) SAND; fine to medium, little silt, trace clay, trace small to medium granule, subrounded; wet to saturated, gray (GLEY 4/N) with dark gray to black (GLEY 2.5/N).	
				7.7			(17.5-17.8) SILT; some sand, very fine to fine, little clay, high plasticity, rapid dilatancy; wet to saturated, soft, dark gray (GLEY, 4/N). NOTE: odor.	
							(17.8-18.1) SAND; fine to medium, little silt, trace clay, trace small to medium granule, subrounded, wet to saturated, gray (GLEY 4/N) with dark gray to black (GLEY 2.5/N). NOTE: odor and sheen.	2" PVC 10 slot well screen (16 to 21' bgs)
				0.7			(18.1-20) SAND; very fine to fine, some silt, trace clay, trace small granule, subangular to subrounded, poorly sorted, wet, gray (2.5YR 5/1).	
20 -20	4	18-22	4.8				(20-20.2) SAND; medium to coarse, trace silt, trace small granule, subrounded, poorly sorted; wet, gray (2.5YR 5/1).	
				0.6			(20.2-22) SAND; very fine to medium, trace small granule, subangular, trace silt, trace clay, poorly sorted; wet, gray (10YR 5/1).	Sand Pack (14 to 21' bgs)
							End of boring 22' bgs.	
25 -25								

Remarks: bgs = below ground surface
HA - Hand Auger

Hand auger from 0-5' bgs
Groundwater encountered at 10' bgs
1/25/12: Temporary Monitoring Well installed to monitor the presence of free product (screened from 16-21' bgs).
1/26/12: Tempory well pulled and boring abandoned.

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Date Start/Finish: 1/25/2012
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Rotosonic/HA/Vac Truck
Sampling Method: Sonic core
Rig Type: NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 19' bgs
Surface Elevation: NA

Descriptions By: Megan Meckley

Well/Boring ID: **WMU10_SB5**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	0-5	5.0	0.8			(0-2.5) GRAVEL FILL	Borehole capped with concrete.
								(2.5-3.5) CONCRETE	
								(3.5-13.5) SAND; medium, trace silt, trace clay, well sorted, dry, brown (10yr, 4/6).	
5	-5				0.9				
					0.6				
					2.3				
10	-10							NOTE: wet at 10' bgs	Borehold backfilled with bentonite.
					4.1				
					45.3				
								(13.5-15) SAND; fine to medium, trace silt, trace small to large granule, subangular: moist, dark gray to black (GLEY, 2.5/N). NOTE: odor, sheen and staining.	
15	-15	2	5-19	7.7	236			(15-17) CONCRETE	
								(17-17.5) SAND; fine, trace clay, well sorted; moist, black (GLEY 2.5/N). NOTE: odor.	
					587			(17.5-18) SILT; high plasticity, rapid dilantancy, little sand, very fine, trace clay, trace medium to large granule, subrounded; wet, soft, (GLEY 4/N).	
								(18-18.7) SAND; medium to coarse, little small granule, trace silt, poorly sorted; moist, gray (5YR 4/1).	
20	-20							(18.7-19) SAND; medium, little silt, trace clay, trace small to medium granule, subangular; dry, gray (5YR 4/2).	
								End of boring 19' bgs.	

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Remarks: bgs = below ground surface
HA - Hand Auger

Hand auger from 0-5' bgs.
Groundwater encountered at 10' bgs.
Groundwater sample collected from temporary well.
1/24/12 Temporary Monitoring Well installed to monitor the presence of free product (screen from 14-19' bgs).

Date Start/Finish: 1/25/2012
Drilling Company: Boart Longyear
Driller's Name: Steve Argue
Drilling Method: Rotosonic/HA/Vac Truck
Sampling Method: Sonic core
Rig Type: NA

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 18' bgs
Surface Elevation: NA

Descriptions By: Megan Meckley

Well/Boring ID: **WMU10_SB6**

Client: RACER Trust

Location: RACER Buick City
Flint, Michigan

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
					0.6			(0-1') CONCRETE	Borehole capped with concrete.
		1	0-5	5.0	0.5			(1-10') SAND; medium, trace clay, trace medium to large granule, subrounded, poorly sorted, dry, brown (10yr, 4/6). NOTE: odor from 5-7' bgs.	
5	-5				9.3				
		2	5-10	4.2	3.3			NOTE: wet at 6' bgs	
					2.0				
10	-10				132			(10-12') SAND; medium, trace clay, trace medium to large granule, subrounded, poorly sorted, moist, brown (10yr, 4/6)	Borehole backfilled with bentonite chipe.
					243			(12-14') CLAY; little silt, high to medium plasticity, slow dilatancy, medium stiff, trace very fine sand, trace small granule, subangular, dry, gray and brown with staining (2.5yr, 4/2 and 2.5yr, 3/1). NOTE: odor and staining.	
15	-15	3	10-20	NA	24.4			(14-16.5') SILT; trace clay, medium plasticity, rapid dilatancy, little sand, very fine, trace small to medium granule, subangular, soft to medium stiff, dry, gray (5yr, 4/1).	
					18.5			(16.5-17.6') SAND; fine to very coarse, trace silt, trace small granule to medium pebble, poorly sorted, wet, dark gray (GLEY, 4/1)	
								(17.6-18') SAND; very fine to fine, some silt, trace medium to large granule, subrounded, poorly sorted, moist, gray (GLEY, 4/1).	
								End of boring 18' bgs	

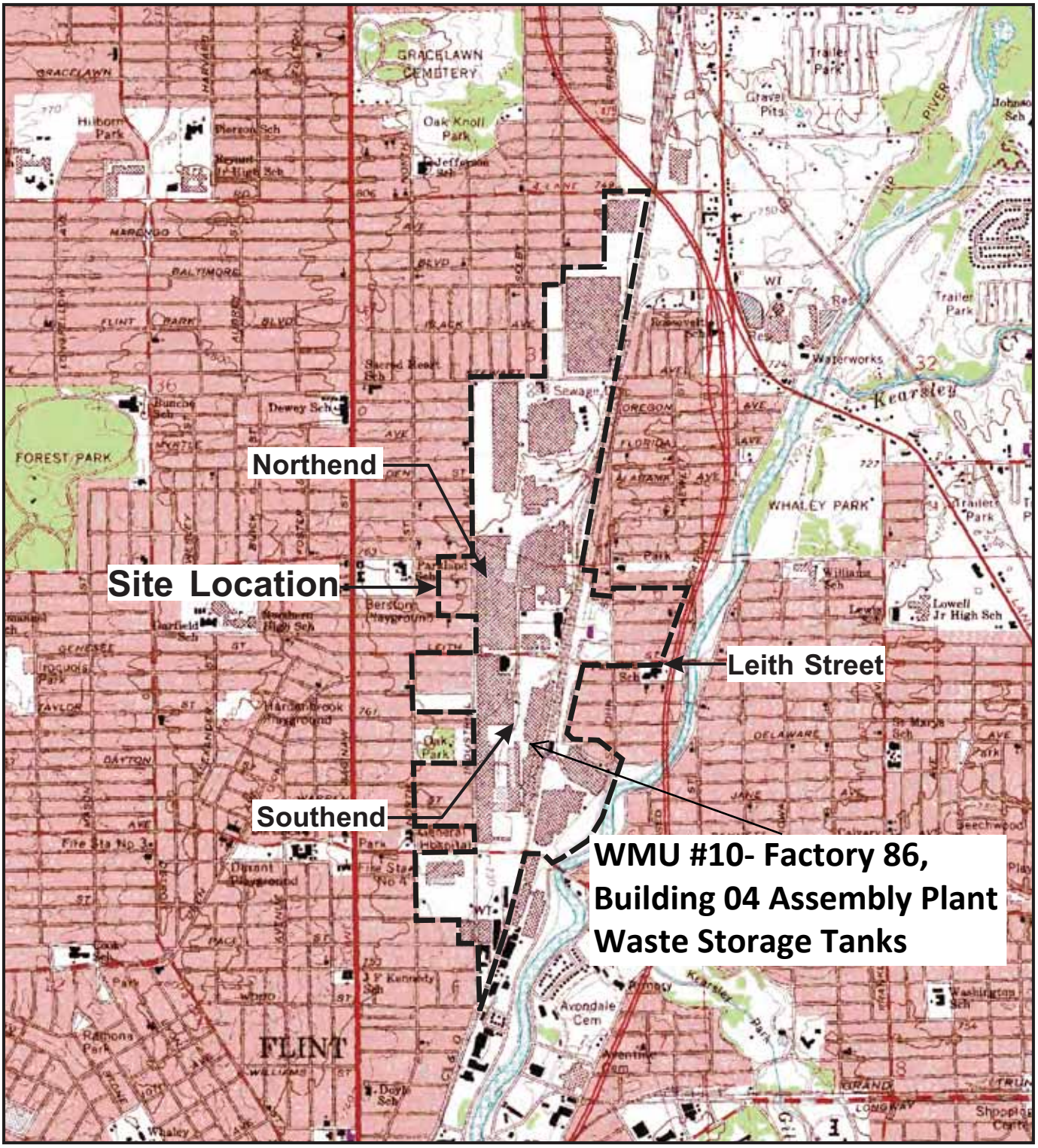
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Remarks: bgs = below ground surface
HA - Hand Auger

Hand auger from 0-5' bgs.
Groundwater encountered at 6' bgs

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Figures



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quad., Flint North, Mich. (1969, Photorevised 1975).

2000' 0 2000'

Approximate Scale: 1" = 2000'



Area Location

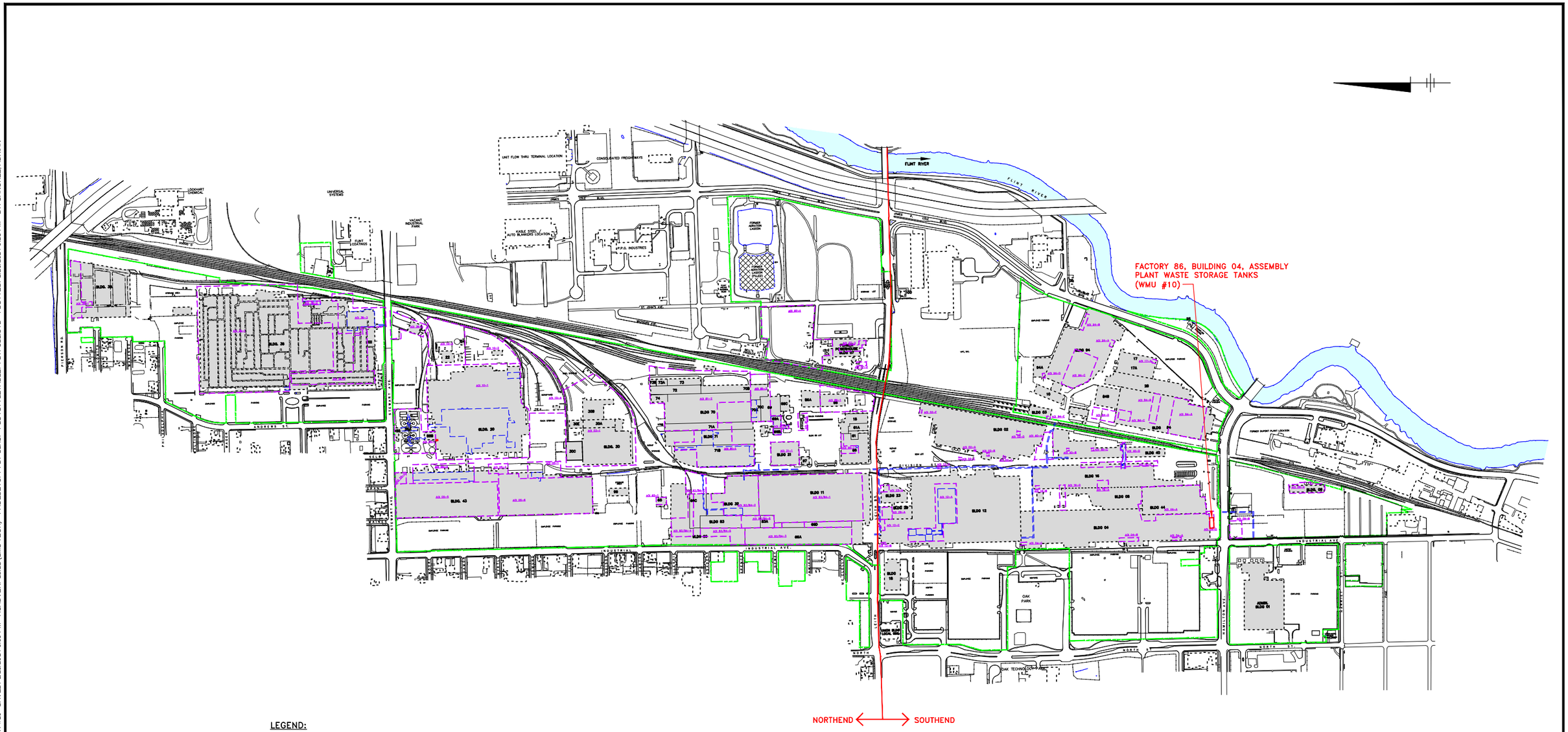
RACER TRUST
BUICK CITY, FLINT, MICHIGAN

SITE LOCATION MAP

ARCADIS

FIGURE
U-1

03/12/2012 SYRACUSE, NY-ENV/CAD-141-DJHOWES
B0064410/2012/01202/CDR/64410N01.CDR



LEGEND:

- PROPERTY BOUNDARY
- APPROXIMATE AOI BOUNDARY
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE WMU AREA

NOTES:

1. IN ADDITION TO THE EXISTING HISTORICAL SITE DATA, THE WASTE MANAGEMENT UNIT LOCATIONS ARE ALSO BASED ON GIS DATA PROVIDED BY THE MDNRE IN JANUARY 2010.
2. BASE MAP INFORMATION FROM A SURVEY BY BMJ INC., DATED APRIL 2001, AT A SCALE OF 1:100.

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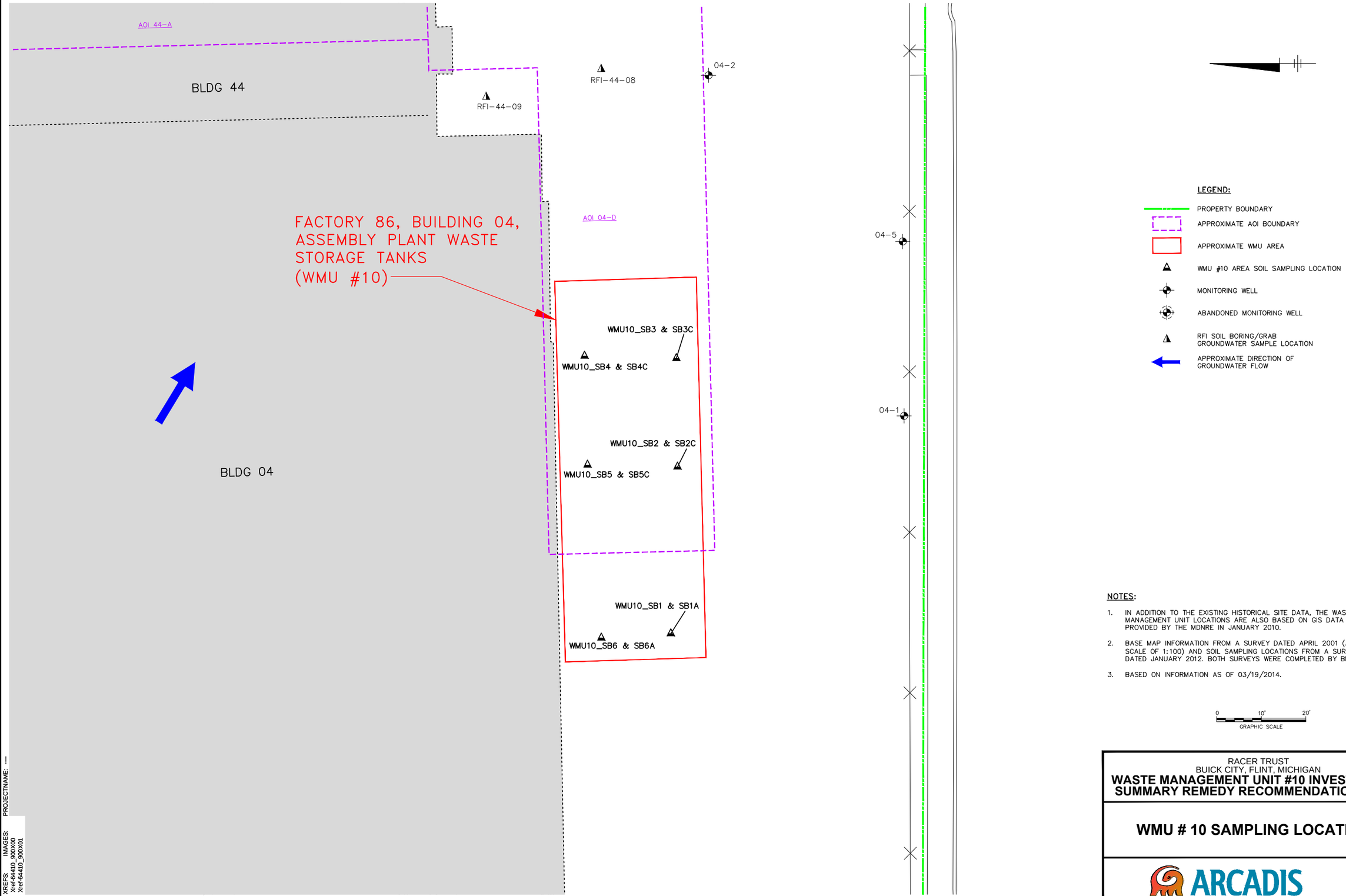
WASTE MANAGEMENT UNIT #10 INVESTIGATION SUMMARY REMEDY RECOMMENDATION MEMO

SITE PLAN

ARCADIS

FIGURE
U-2

CITY: SYRACUSE DIV/GROUP: ENVCAD DB: G. STOWELL L:FORAKER LD: G. STOWELL PIC: C. PETERS PM: M. MAKI TM: M. MAKI LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\06410\20140090\06410_900 G01.DWG LAYOUT: #10 SAVED: 1/29/2014 6:09 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: PDF 11X17 PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 1/29/2014 6:15 PM BY: SANCHEZ, ADRIAN
XREFS: IMAGES: PROJECTNAME: ----
Xref-64410_900X00
Xref-64410_900X02
Xref-64410_900X01



NOTES:

1. IN ADDITION TO THE EXISTING HISTORICAL SITE DATA, THE WASTE MANAGEMENT UNIT LOCATIONS ARE ALSO BASED ON GIS DATA PROVIDED BY THE MDNRE IN JANUARY 2010.
2. BASE MAP INFORMATION FROM A SURVEY DATED APRIL 2001 (AT A SCALE OF 1:100) AND SOIL SAMPLING LOCATIONS FROM A SURVEY DATED JANUARY 2012. BOTH SURVEYS WERE COMPLETED BY BMJ INC.
3. BASED ON INFORMATION AS OF 03/19/2014.

0 10' 20'
GRAPHIC SCALE

RACER TRUST
BUICK CITY, FLINT, MICHIGAN

WASTE MANAGEMENT UNIT #10 INVESTIGATION SUMMARY REMEDY RECOMMENDATION MEMO

WMU # 10 SAMPLING LOCATIONS

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FIGURE
U-3

CITY: SYRACUSE DIV/GROUP: ENVCAD DB: G.STOWELL L.FORAKER LD: G.STOWELL PIC: C.PETERS PM: M.MAKI TM: M.MAKI LYR: ON=*; OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\064410\2014\00900\64410 WMU10.dwg LAYOUT: #10 SAVED: 5/13/2014 2:32 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: PDF 11X17 PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 5/13/2014 2:32 PM BY: SANCHEZ, ADRIAN
XREFS: IMAGES: PROJECTNAME: ---
Xref-64410_900X00
Xref-64410_900X01

Appendix V

EPA Comments and Responses

ARCADIS of Michigan, LLC
28550 Cabot Drive
Suite 500
Novi
Michigan 48377
Tel 248 994 2240
Fax 248 994 2241

MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER Trust
Dave Favero, RACER Trust
Chris Peters, ARCADIS
Steve Gaito, ARCADIS

From:
Micki M. Maki
Victoria Stacey

Date:
August 28, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
Response to USEPA Comments on Overview Issues Summary Document

---

1. A statement that remedies will not be implemented until USEPA approval is received will be included.

USEPA Response - No comment.

2. A brief summary of the historic reports and include references to historic reports where reader can find pertinent info (e.g. Transmissivity data has previously been presented in the 2012 CMI report).

USEPA Response - In addition, the reader would benefit from inclusion of locations/sources of the historical reports such as website addresses:

http://www.racertrust.org/Properties/Detail?Id=12950
Or
http://www.epa.gov/region05/cleanup/rcra/buickcity/index.html

ARCADIS Response – Acknowledged. This information will be included in Section 1.1 of the main Report.

3. Southend Final Decision history and perspective – how this work fits with the Final Decision.

USEPA Response - The discussion on the Southend Final Decision should also explain why the remedial approach differs for the Northend. This would address a reviewer's concern that "remedy recommendation is inconsistent with the LNAPL remedies proposed in the existing Southend Final Decision ."

ARCADIS Response – We don't consider the approach for the Northend to be inconsistent with the Southend Final Decision. Additional language will be included in Section 1 of the Report to discuss the remedial approach for the Northend.

4. The LNAPL Remedial Decision Tree (working draft 2/6/13) flowchart and how it is used in the attached AOI evaluations.

USEPA Response - Along with adding an example LNAPL Remedial Decision Tree and discussion, inclusion of references to supporting documents would help the reader understand the bases of a decision. For example, regarding option 2 (on the LNAPL Remedial Decision Tree), a reference to the bench-scale test tables and cost tables would aid in a determination of possible feasibility or infeasibility of this option.

ARCADIS Response – A template LNAPL Remedial Decision Tree has been included as Appendix W. The template also includes references to support documents where appropriate.

5. TSCA regulatory requirements and proposed approach to address PCB issues.

USEPA Response - The discussion of TSCA regulatory requirements should include references to previous discussions with EPA:

During the October 24, 2013 Meeting with RACER, EPA clarified their position in regards to TSCA issues at the Buick City Site:

1.) Region 5 EPA posed this question on the PCB National call 9/16/13:

The facility is requesting disposal of material at the oil/water separators at "as-found" concentrations given that this is a remedial project and the resulting oil

waste at the separator, if found at < 50 ppm, is not the result of “intentional dilution” of any in-situ > 50 ppm NAPL sources that may have infiltrated the sewer. They believe the oil at the separators is Remediation Waste.

Question 1: Can the PCB impacted oils at the separators be viewed as PCB Remediation Waste and disposed of based on an “as-found” concentration? (The 761.3 definition for PCB Remediation Waste does not specifically call out oil/NAPL, but it mentions “other debris generated as a result of any PCB spill cleanup, including, but not limited to:”)

*From various responses on the PCB National Call and subsequent discussions, EPA can determine if RACER is not intentionally diluting, and due to the work being conducted under the RCRA 3008(h) Order EPA can use "enforcement discretion" to decide that PCB wastes in the Oil Water Separator are "as found" and not dilution and dispose of accordingly per TSCA.

In finalizing proposed remedies for the LNAPL plumes there are questions that arise in regards to the disposal of PCB liquids/oils and solids. Submitting a remedy recommendation report for each LNAPL plume and referencing 761.61(c) within each report to cover the remediation waste, as opposed to submitting a 61(c) application for approval seems like the prudent path forward.

ARCADIS Response – As discussed during the 4/15/14 meeting USEPA will provide a summary email to be included in Appendix Y to the Remedy Report.

6. Summary of bench scale testing activities (graphic and/or text summary).

USEPA Response - Along with the graphic and/or text summary of the bench-scale test, inclusion of notes at the bottom of each table explaining the results of the bench-scale test would be helpful. In their present forms presented at the meeting on March 6, 2014, Table 4A and Table 4B are confusing. The portions of the tables that focus on the criteria for success are unclear.

ARCADIS Response – Acknowledged. Additional Information will be added to the tables.

7. Transmissivity analysis – where and why performed; conclusions; and how the results are used in the AOI specific remedies.

USEPA Response - A reference to the above text should also be included in the notes section below the table.

ARCADIS Response – Acknowledged. Additional Information will be added to the tables.

8. NSZD analysis - where and why performed; conclusions; and how applied to AOI enclosed remedy reviews. Include Southend NSZD report in Appendices.

USEPA Response - Additional notes should be included under the NSZD table explaining the results and the hydrocarbon ranges. In their present forms presented at the meeting on March 6, 2014, Table 3A and Table 3B are confusing.

ARCADIS Response – Acknowledged. Additional Information will be added to the tables.

9. Petroleum Vapor Intrusion perspective and how the potential for methane generation will be addressed. Evaluate whether there is an offsite risk which needs to be evaluated.

USEPA Response - The text should indicate clearly the necessity for a completed vapor intrusion investigation prior to implementation of engineering controls. Engineering controls alone may not be protective, depending on types and concentrations of contamination present. Also, the revised text did not include information on how off-site risk would be addressed.

ARCADIS Response – The institutional controls require future users to evaluate vapor intrusion prior to construction. Vapor intrusion at the Site property boundary is continuing to be evaluated and is further discussed in the LNAPL area specific appendices.

10. Clarify that Waste Management Units not closed by MDEQ are incorporated into USEPA Final Decision process.

USEPA Response - No comment.

11. Storm sewer discussion to include: NDPES permit, NPMP Sampling, boom study, video inspections (with reference memo), rain event flow measurements, and outfall areas that require a response to address residual LNAPL on stream banks.

USEPA Response - Addressing residual LNAPL within abandoned sewer lines should also be included as part of the residual LNAPL program described here. Although added discussion is adequate, actual material to be included as Appendix AA has not been reviewed.

ARCADIS Response – At each LNAPL Area where bulkheading is included as a portion of the remedy, the abandoned portion of the storm sewer will be monitored for LNAPL accumulation as discussed in the LNAPL Area specific appendices.

12. Remedial Technology Matrix presents technologies identified as potentially applicable for each AOI and or LNAPL area and key factors used in assessing technologies.

USEPA Response - No comment. However, the reader would benefit from citations to key decision-making tables such as this one in the Decision Tree, as appropriate. For example, under "Do feasible options exist to mitigate...," insertion of "(see Table 7)" would direct the reader to pertinent information regarding this decision.

ARCADIS Response – A template of the LNAPL Remedial Decision Tree has been included as Appendix W. The template also includes references to support documents where appropriate.

13. Remedy Cost Estimate Matrix which will include a range of potential technologies, their estimated cost, and how the costs are factored into remedy selection.

USEPA Response - No comment.

14. Institutional Controls – discuss standard Site-wide limitations and how AOI specific issues will be addressed. ICs will include no use of groundwater; owner must address VI pursuant to applicable regulatory requirements; slabs must remain and owner assumes all risks if removed; owner must comply with due care; soil relocation requirements, etc.

USEPA Response - Make IC language consistent throughout—especially regarding required evaluations of VI. Given that the ICs to be implemented are fairly universal, a generic restrictive covenant (or similar IC documentation) that addresses the ICs should be provided (with the

understanding that some minor language changes based on future property owner may be necessary).

ARCADIS Response – Acknowledged. An example restrictive covenant will be included in Appendix Z.

15. OMM Plan/Monitoring effectiveness of remedies – will be addressed as appropriate in the AOI specific memos.

USEPA Response - The revised text states that this information will be presented in statement of basis documentation. This documentation should be provided for review to allow determination if proposed OMM is appropriate. A discussion of the long term plan to assess remedy effectiveness is required, additional technical details will be provided in the subsequent CMI Workplan.

ARCADIS Response – The OMM information will be presented in the CMI design/work plan documentation (not statement of basis documentation). The general assessment of OMM (general nature, frequency, duration) requirements is included in Tables 7 and 8. The details will be fleshed out in the basis of design once the remedies have been approved. Documentation will also include details regarding how the effectiveness of remedies will be monitored; frequency of monitoring; what items would trigger re-evaluation, repair or replacement of the remedy; as well as the time frame and end points of monitoring.

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MEMO

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From:
Micki M. Maki
Victoria Stacey

Date:
August 15, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
Group 1 - Response to USEPA Comments on Priority #10 – AOI 83/84-4 Cutting Oil Area, Priority #12 – AOI 83/84-5 Cutting Oil Area, Priority #13 – AOI 03-1 Quench Oil Area, and Priority #17 – AOI 36-5 Fuel Oil Area Evaluation and Remedy Recommendation Memos
Buick City Site, Flint, Michigan

This memo provides responses to the comments received from USEPA on February 5, 2014 on Priority #10 – AOI 83/84-4 Cutting Oil Area, Priority #12 – AOI 83/84-5 Cutting Oil Area, Priority #13 – AOI 03-1 Quench Oil Area, and Priority #17 – AOI 36-5 Fuel Oil Area Evaluation and Remedy Recommendation Memos (Memos).

Please note that the general comments on the Remedy Recommendations Report (Report) from each set of comments were grouped together as appropriate and one response is provided. Comments that appeared in several sets of comments have been grouped together and are addressed in the General Comments section of this memo. The comments are noted by beginning with a G then using the Priority # - Comment #. So General Comment 1 from Priority #10 memo is referred to as comment G10-1. The comments specific to a particular memo are named similarly, but they begin with an S.

General Comments

Comments G10-1, G12-1, and G17-1 - *Although the memorandum is not at the Statement of Basis stage, it should document that all reasonably applicable technologies have been identified and properly screened, that remedial timeframes for the recommended remedy are reasonable and to define the steps*

to monitor effectiveness of the remedy. Additions to the Remedy Recommendation Report summary will include a summary of the bench scale testing and also, as far as this is possible for multiple AOIs, a discussion of timeframes and monitoring of remedial effectiveness.

Response – This comment will be addressed by the addition of the Remedial Technology Matrix (RTM), the Institutional Controls Matrix (ICM), and the Bench–Scale Testing Matrix (BSTM) as tables to the main report. The RTM will summarize the technologies evaluated for each AOI and the rationale for selecting or eliminating the technology. The ICM will provide a summary of the Site-wide institutional controls to be implemented. The BSTM will present a summary of the results of bench-scale testing activities conducted at the Site.

Operations, monitoring and maintenance activities associated with each of the remedies will be included in the basis of design documentation. Documentation will also include details regarding how the effectiveness of remedies will be monitored; frequency of monitoring; what items would trigger re-evaluation, repair or replacement of the remedy; as well as the time frame and end points of monitoring.

Comments G10-2, G12-2, G13-3, and G17-2 - *Expanded discussion of various remedial technologies evaluated for this Site is recommended in Attachment 3, Section 4, Remedies Evaluated and Not Selected. Proper evaluation of site remedial technologies includes estimated effectiveness, biodegradation rates, remedial timeframes, and risk control measures. This is best addressed in the Remedy Recommendation Report summary as to not add multiple sections to the individual recommended remedy reports for the LNAPL in appendices A-Q.*

Response – This comment will be addressed by the addition of the RTM, the Preliminary Cost Evaluation Matrix (PCEM), and the Remedy Cost Benefit Matrix (RCBM) as tables to the main report.

Comments G10-3, G13-4, and G17-3 - *The 2010 Revised Corrective Measures Proposal – Addendum No. 2 states that Motors Liquidation Company (MLC) agreed to actively remediate AOIs containing light non-aqueous phase liquid (LNAPL) as part of the corrective measures for the Site. It also states that the remedial goal for this AOI is to remove LNAPL to the extent practical, and that a passive recovery trench was proposed as a remedy. The concern is that the remedy recommended is inconsistent with the LNAPL remedies proposed in the existing Southend Final Decision.*

Response – This comment will be addressed in the body of the main Report by the inclusion of a more detailed history of the development of the Corrective Measures Proposal (CMP) (and its addenda) and the Southend Statement of Basis.

Comments G10-4, G12-6, G13-2, G13-5, and G17-4 - *Although the text concisely summarizes site characteristics, it remains unclear if conclusions regarding the downgradient portion of the Site are appropriate considering other factors such as presence of oil-saturated soils above the water table, presence of free product, and accumulation of methane byproducts in vapor phase. A discussion is warranted assessing whether the recommended remedy is more effective, less costly, and can more adequately address risks in a timely manner than other remedial alternatives or combination of alternatives. This may be handled in referencing previous remedy screening exercises or summarizing each LNAPL AOI remedy screening in the Remedy Recommendation Report.*

Response – This comment will be addressed by the addition of the PCEM, RTM and RCBM as tables to the Report. In addition, conceptual site models (CSM) which present combined areal and cross-sectional views of the AOIs will be presented in the AOI specific Remedy Recommendation Memo appendices.

Comments G10-5, G12-11, G13-6, and G17-5 - *The term "institutional control" (IC) should be defined and used appropriately, but not when specifically referencing engineering controls (see Institutional Controls: A Guide to Planning, Implementing, Maintaining, and Enforcing Institutional Controls at Contaminated Sites [EPA 2012]). A combination of control measures, including both ICs and engineering controls, may be required to address risks as identified at AOI 83/84-4. Unacceptable exposure risks posed by the vapor phase may require engineering controls in addition to ICs. For proper placement of engineering controls, provide calculations and data to support the determination of where engineering controls are to be placed, including a more specific discussion of the risks posed.*

Response – This comment will be addressed by the addition of the ICM as a table to the main report as well as by including discussion of Institutional Controls (IC) and the vapor phase pathway in the main body of the report and appendices. The obligation to complete an evaluation of potentially unacceptable exposure to vapor intrusion should a future owner want to build a structure on the site will be required by a proposed Restrictive Covenant to be placed on the property.

Comments G10-6 and G13-7 - *The statement that "no feasible options exist to mitigate risk through compositional change" is not supported by reference to a completed comprehensive analysis and cost evaluation. A combination of passive and active remedial technologies in limited applications may be a plausible component of a selected remedial alternative, and may add value by reducing source area mass and durations of remedial timeframes.*

Response –This comment will be addressed by the addition of the BSTM, PCEM, RTM and RCBM as tables to the Report. An discussion of the LNAPL Remedial Decision

Tree that was developed to provide a consistent framework for identifying LNAPL remedial drivers and determining an appropriate remedial strategy based on a sound LNAPL conceptual site model (shown in Attachment 2 in the individual memos) will be included in the main report.

Comments G10-7, G12-8, G13-8, and G17-7 - *Reasonable remedial timeframes and costs of the selected alternative should be directly compared to active remedial alternatives to determine if feasible options exist. The comparison should include definition of the terms "reasonable timeframes" and "reasonable costs".*

Response – This comment will be addressed by the addition of the PCEM, RTM and RCBM as tables to the main report.

Comments G10-9, G13-10, and G17-9 - *LNAPL is present, but no evaluation appears in this document of low-cost, mass contaminant removal—its effectiveness and its impact on remediation timeframes. A discussion is warranted of the bench scale studies and how that applies to the LNAPL remedy choices. Cost estimates for additional site monitoring and modeling of biodegradation rates, and calculations of methane generation rates should be considered when assessing the overall cost associated with the proposed remedy. …A discussion is warranted regarding both small and larger scale active remediation alternatives to monitored natural attenuation (MNA), such as bio-slurping, bioventing, recovery trench, enhanced in situ biodegradation, in situ chemical oxidation, and potentially others.*

Response – This comment will be addressed by the addition of the PCEM, RTM and RCBM as tables to the Report.

Comment G12-10 - *An expanded discussion of methane generation and its potential impacts should be considered when assessing the overall cost of the proposed remedy. Also, specific information should be provided regarding existing site surface cap or coverage, and adequacy of this as an effective IC.*

Response – This comment will be addressed by the addition of the ICM as table to the main report as well as by including discussion of ICs and the vapor phase pathway in the main body of the main report. The obligation to complete an evaluation of potentially unacceptable exposure to vapor intrusion should a future owner want to build a structure on the site will be required by a proposed Restrictive Covenant to be placed on the property. AOI specific requirements regarding surface caps will be addressed in the appendices presenting the AOI specific Remedy Recommendation Memos.

Comment G13-11 and G17-10 - *Gross costs estimates for additional site monitoring, modeling of biodegradation rates, and calculations of methane generation rates should be considered when assessing the overall cost associated with the proposed remedy.*

Response – As discussed above, the obligation to complete an evaluation of potentially unacceptable exposure to vapor intrusion should a future owner want to build a structure on the site will be required by a proposed Restrictive Covenant to be placed on the property. It is acknowledged that the cost estimates for the selected remedies will include necessary monitoring.

Specific Memo Comments - #10 – AOI 83/84-4 Cutting Oil Area

Comment S10-1 - Attachment 1, Section 2.1, LNAPL Monitoring and Bailed Program, Page K1-1: *Active remediation of soils has not occurred, and no additional recovery efforts have been implemented. Further information would be helpful to the reader to support conclusions in the memorandum, and to assess other potentially applicable technologies.*

Response – Additional information about the AOI 83/84-4 area and associated investigations is available in the Site reports presented in **Appendix Y**. Also, please refer to the Preliminary Cost Evaluation Matrix (PCEM), the Remedial technology Matrix (RTM) and the Remedy Cost Benefit matrix (RCBM) provided in the main Report.

Comment S10-2 – Attachment 1, Section 3.1, Geology and Hydrogeology, Page K1-2: *An abbreviated hydrogeology section should be added here discussing pertinent site characteristics, such as groundwater flow direction, hydraulic gradient, proximity to subsurface features (such as, storm sewers), and preferential surface and subsurface flow features.*

Response – This comment will be addressed in the CSM cross-sectional figure, presented as **Figure I-1**. Information regarding regional and Site geology and hydrogeology can be found in the Site RFI Reports presented in **Appendix Y**.

Comment S10-3 – Attachment 1, Section 3.3, LNAPL Characteristics, LNAPL Analytical Data, Page K1-3: *The text states that "The LNAPL contains arsenic and lead at concentrations that are potentially characteristically hazardous." A discussion of why the concentrations are only "potentially" hazardous should appear in this document. The discussion should include concentrations detected, criteria to which those concentrations are compared, and how much those concentrations exceed criteria.*

Response – Text will be amended to state "Concentrations of arsenic exceed TCLP criteria; however, TCLP analysis has not been conducted.

Comment S10-4 - Attachment 1, Section 3.3, LNAPL Characteristics, Transmissivity, Page K1-3: *The text states that the transmissivity value (0.03 square feet per day) determined from an LNAPL baildown test in April 2013 is below the ITRC and Michigan Department of Environmental Quality (MDEQ) threshold for recovery. If these baildown test data have not yet been presented, the data should be included for review.*

Response – Acknowledged. Transmissivity data are presented in **Table 2 of the main report**.

Comment S10-5 - Attachment 1, Section 3.3, LNAPL Characteristics, Natural Source Zone Depletion, Page K1-3: *The text states that high levels of methane were detected during MW-83/84-7 installation, and that this indicated occurrence of natural source zone depletion (NSZD). The methane may be a natural occurrence or a result of NSZD. However, in either scenario, installation of a methane monitoring network would be necessary to demonstrate that (1) methane generated does not interfere with long-term stewardship and any proposed ICs and engineering controls, and (2) no immediate exposure risk is currently present as a result of elevated methane.*

Response – The Report will include language that future owners will conduct evaluations and address methane and vapor intrusion as necessary. In addition, the text will be revised to more clearly state that the MW-83/84-7 location is at the adjacent AOI 83/84-5 LNAPL Area (not AOI 83/84-4) and will be further addressed as part of vapor intrusion investigations being completed at AOI 83/84-5.

Comment S10-6 – Attachment 1, Section 3.3., LNAPL Characteristics, Page K1-3: *If applicable, provide and use data from the south end NSZD to extrapolate or estimate degradation rates and methane production rates within this AOI.*

Response – Not applicable.

Comment S10-7 – Table 2: *Verify concentration units and present site-specific comparison criteria. Distinguishing detected values from non-detected values (for example, via highlighting or shading) would facilitate the reader's comprehension.*

Response –The concentration units have been confirmed to be correct; however, there are no criteria for LNAPL. Locations which exceed (or do not exceed) criteria are presented on the CSM **Figure I-1**. Please note that all data tables have been moved to **Appendix X**.

Comment S10-8 – Figure 2: *Delineate or label the following items relevant to evaluation of recommendations regarding the Site: storm sewer and other underground utility locations, sentinel well locations (as referenced in the text), groundwater contours, upgradient and crossgradient source areas (AOIs) if any, and surface cap location.*

Response – **Figures 2 and 3 of the main report** show AOIs and LNAPL Extents. **Figures 5 and 6 of the main report show** the site drainage areas, storm sewers, and bulkhead locations. **Figure 2** will be updated with a groundwater flow direction arrow. Locations which exceed (or do not exceed) criteria are presented on the CSM **Figure I-1**. The CSM cross-section figure also details much of the requested information.

Comment S10-9 – Figure 2: *The Figure appears to accurately estimate the horizontal extent of LNAPL present at this AOI. However, isoconcentration lines depicting approximate limits of groundwater surface water interface (GSI) exceedances are not shown. In addition (along with isoconcentration lines), a figure identifying soil sample exceedances would help identify the extent of influence of the LNAPL on surrounding matrices.*

Response – Locations which exceed (or do not exceed) criteria are presented on the CSM **Figure I-1**.

Comment S10-10 – Attachment 2, Decision Tree: *As stated above in the general comments, the Decision Tree omits EPA approvals.*

Response – Text regarding EPA approvals has been added to the body of the main report.

Comment S10-11 – Attachment 2, Background: *Clarify capped and non-concrete and asphalt covered areas within the Site.*

Response – Surface cover materials will be noted in the background section.

Comment S10-12 – Attachment 2, Geology and Hydrogeology: *See Specific Comment 2 above regarding addition of a hydrogeology section (Section 3.1, page K1-2, Geology and Hydrogeology), and include relevant information here.*

Response – This comment will be addressed in the CSM cross-sectional figure, presented as **Figure I-1**. Information regarding regional and Site geology and hydrogeology can be found in the Site RFI Reports presented in **Appendix Y**.

Comment S10-13 – Number #1, Page K2-2: *Future site construction and active utility repairs in the areas may involve short-term site worker exposure scenarios. Consider addressing this, and whether methane explosive hazards and air monitoring requirements have been evaluated.*

Response – The main report will include language that future owners will conduct evaluations and address methane and vapor intrusion as necessary. In addition, the text will be revised to more clearly state that the MW-83/84-7 location is at the adjacent AOI 83/84-5 LNAPL Area (not AOI 83/84-4) and will be further addressed as part of vapor intrusion investigations being completed at AOI 83/84-5.

Comment S10-14 –Number #2, Page K2-2: *This section requires additional supporting documentation, such as comparisons of costs, time required for monitoring of LNAPL, and others.*

Response – This comment will be addressed by the addition of the PCEM, RTM and RCBM as tables to the main report.

Comment S10-15 – Number #2, Second bullet, Page K2-2: *Explain in terms of a technical basis why city sewers prevent implementation of this technology, and specify the associated risks.*

Response – Many of the storm sewers in the City of Flint are old clay-tile sewers. The heat generated by this technology could compromise the sewers potentially causing a collapse of the sewer pipe. Also, for sewers where there is a rubber gasket, high temperatures may compromise the seal that would allow groundwater infiltration. There are also older water lines, sanitary sewers, etc. (since this area was a manufacturing facility for over 100 years) that may be damaged by high temperatures. Also, increasing the water temperature in the storm sewer could have a negative on the Flint River ecosystem.

Comment S10-16 – Number #4, Page K2-2: *Provide or reference the well designations (numbers) and locations of the sentinel wells (Figure 2). Consider addressing issues such as proper well construction for monitoring of LNAPL, any change in groundwater elevation that potentially prevents identification of LNAPL in wells (such as, seasonally rising groundwater during data acquisition), changed conditions after the 2011 building demolition activities, preferential pathways such as the sewers/conduits, etc.*

Response - The LNAPL extent evaluation discussion in the main report was revised to include additional discussion of Site changes and seasonal fluctuations. Information regarding water level/ LNAPL gauging is presented in **Appendix X**. Also, please refer to the CSM cross-sectional figure presented in the Memos as well as **Figures 5 through 8** of the main report for additional information regarding Site structures utilities and the locations of wells.

Comment S10-17 – Number #6, Page K2-2: *Provide a summary of any recovery options evaluated and how these were screened and evaluated to support the decision.*

Response – This comment will be addressed by the addition of the PCEM, RTM and RCBM as tables to the Report.

Comment S10-18 – Attachment 2, Item 7 Are Controls Required?, Page K2-3, Bullet 1: *The text states that prohibiting use of groundwater for other than sampling, investigatory, remedial, or short-term dewatering purposes is proposed as part of the ICs and engineering controls for this AOI. Short-term dewatering without appropriate collection systems may spread hazardous constituents to areas outside of the current LNAPL plume. Inclusion of short-term dewatering with remediation is recommended only if appropriate collection systems are in place or are to be constructed. This comment also applies to Attachment 3, Section 3.1, Institutional Control, Page K3-2, Bullet 1.*

Response – Standard practice in Michigan requires all such activities be performed in compliance with applicable laws, rules and regulations.

Specific Memo Comments - #12 – AOI 83/84-5 Cutting Oil Area

Please note that four of the general comments for the Priority #12 memo where specific comments, so they are addressed here.

General Comment G12-3 - *Also required is a summary of the historical data demonstrating that the plume has stabilized and is not mobile. Effectiveness of the wells to monitor the plume should be discussed, based on proximity of the monitoring wells to the plume, hydraulic gradients, and flow direction. Although identification of the plume occurred recently, historical data from the past 10 years should be generally discussed to demonstrate plume stability and to support the conclusions presented. Groundwater analytical data obtained from the site should be compared to applicable screening values such as the Michigan Part 201 nonresidential criteria.*

> Response – Please note that this LNAPL area was identified in 2013; therefore, historic data for the AOI 83/84-5 LNAPL Area do not exist. However, as part of Site wide investigations and monitoring events data has been collected at AOI 84/8-5 and downgradient of this AOI. Groundwater/LNAPL level data are presented in **Appendix X**. Data are compared to applicable MDEQ Part 201 criteria. A summary of the available data compared to criteria is present in Attachments 1 and 2.

General Comment G12-4 - *Text presented in the third bullet of the decision tree evaluation, page N1-1, and in Attachment 3, Section 3, Remedy Recommended, states that free product recovery is recommended and light non-aqueous phase liquid (LNAPL) removal is proposed. These statements contradict information presented on Attachment 2, LNAPL Remedial Decision Tree, which illustrates use of institutional controls (ICs) only. Clarify and render consistent statements regarding the recommended remedy.*

> Response – Attachment to was revised to note that while institutional controls are recommended to address the potential volatilization to indoor air risk for a future structure, which free product recovery is recommended due to the LNAPL's proximity to the property boundary.

General Comment G12-5 - *The text should discuss the approximate geographical extent proposed for free product recovery. That portion of the 85,500 square feet impacted by LNAPL noted in the text should be distinguished from areas not to be actively remediated. Recommended as well are further investigation and evaluation of downgradient areas at which free product recovery may prove beneficial. Additional transmissivity testing and expanded investigation may be applicable, and could coincide with the proposed investigation discussed in Attachment 3, Section 3.1.*

> Response – This LNAPL area is currently being delineated and additional transmissivity testing is

planned for this area. Additional details regarding the area to be remediated will be provided in subsequent work plans or basis of design documentation.

General Comment G12-7 - *Additional discussion is necessary regarding ownership, environmental impacts, and the approach to remediation within areas with free product depicted on Figure 2, in the vicinity of Industrial Avenue.*

Response – The LNAPL area has recently been identified and is currently being delineated. Once additional delineation and investigation activities have been completed additional information will be provided in work plans or basis of design documentation. Please note that four additional monitoring have recently been installed along the property boundary and the extent of LNAPL has been refined based on the additional information.

Comment S12-1 - Attachment 1, Section 2.1, Geology and Hydrogeology, Page N1-1: *Results of Laser Induced Fluorescence (LIF) indicate LNAPL impacts as deep as 12 feet below ground surface (bgs), while the following section, Groundwater/LNAPL Levels, states that groundwater is generally at 9 feet bgs. The text should discuss historical fluctuations in groundwater elevations in relationship to measurements of free product, and whether different free product thicknesses could result from these groundwater fluctuations.*

Response – Please refer to the CSM cross-section figure for this information **Figure K-1**.

Comment S12-2 - Attachment 1, Section 2.1, Geology and Hydrogeology, Pages N1-1 and N1-2: *An abbreviated hydrogeology section should be added to this section to discuss pertinent site characteristics, such as hydraulic gradient, proximity to subsurface features (for example, storm sewers), and preferential surface and subsurface flow features.*

Response – This comment will be addressed in the CSM cross-sectional figure, presented as **Figure K-1**. Information regarding regional and Site geology and hydrogeology can be found in the Site RFI Reports presented in **Appendix Y**.

Comment S12-3 - Attachment 1, Section 2.2, Groundwater and Soil Analytical Data, Groundwater bullet, Page N1-2: *Provide the upgradient location of monitoring well 11-120, and discuss its relevance to the 83/84-5 Site. The text should include a statement recommending determination whether any historical groundwater analytical results at AOI 83/84-5 exceed Michigan Part 201 nonresidential criteria.*

Response – The location of monitoring well 11-120 is shown on **Figure K1-2**. **Attachment 1** includes a comparison of results to Michigan Part 201 nonresidential criteria, including all historical data.

Comment S12-4 - Attachment 1, Section 2.2, Groundwater and Soil Analytical Data, Soil Bullet, Page N1-2: *The text should provide an expanded discussion and data to support the statement that "mercury does not appear to be related the AOI 83/84-5 LNAPL plume."*

Response – The text in this section will be expanded to address this comment.

Comment S12-5 - Attachment 1, Section 2.3, LNAPL Characteristics, LNAPL Analytical Data, Page N1-2: *The text states that "The LNAPL contains arsenic at concentrations that are potentially characteristically hazardous." A discussion of why the concentrations are only "potentially" hazardous should appear in this document. The discussion should include concentration(s) detected, criteria to which those concentrations are compared, and how much those concentrations exceed criteria.*

Response – Text will be amended to state "Concentrations of arsenic exceed TCLP criteria; however, TCLP analysis has not been conducted.

Comment S12-6 - Attachment 1, Section 2.3, LNAPL Characteristics, Transmissivity, Page N1-3: *The text states that the transmissivity values vary from 0.08 to 1.6 square feet per day between monitoring wells MW 83/83-7 and MW 83/84-19. To determine if differences in transmissivity results can be attributed to localized subsurface heterogeneity, borehole logs should be compared to specific lithologies. Variations in lithology may directly impact free product recovery and selection and placement of remedial technologies. Application of transmissivity values in determining site data gaps and remedial technologies would also be useful here.*

Response – The conceptual Site model (**Figure K-1**) provides a cross section of the AOI 83/84-5 Area. Also, additional transmissivity testing is planned for this area after LNAPL delineation is completed.

Comment S12-7 - Attachment 1, Section 2.3, LNAPL Characteristics, Natural Source Zone Depletion, Page N1-3: *The text states that high levels of methane were detected during MW-83/84-7 installation, and that this indicated occurrence of natural source zone depletion (NSZD). The methane may be a natural occurrence or a result of NSZD. However, in either scenario, installation of a methane monitoring network would be necessary to demonstrate that (1) methane generated does not interfere with long-term stewardship and any proposed ICs/engineering controls, and (2) no immediate exposure risk is currently present as a result of elevated methane.*

Response – The report will include language that future owners will conduct evaluations and address methane and vapor intrusion as necessary. The MW-83/84-7 location will be further addressed as part of vapor intrusion investigations being completed at AOI 83/84-5. Additional

text has also been added to Section 2.2.4 of the memo to further discuss vapor intrusion.

Comment S12-8 - Attachment 1, Section 2.3, LNAPL Characteristics, Natural Source Zone Depletion, Page N1-3: *If applicable, provide and use data from the south end NSZD to extrapolate or estimate degradation rates and methane production rates within this AOI.*

Response – Not applicable.

Comment S12-9 - Attachment 1, Section 2.4, Extent of LNAPL and Impacts, LNAPL Area, Page N1-3: *Discuss how selection of the recommended remedy was influenced by the extent of LNAPL in relationship to the locations of rights of-way and potential utilities (see also Specific Comment 2).*

Response – The discussion of remedies is in Attachment 3, so a discussion in Attachment 1 would be premature. The presence of utilities and rights-of-way will be considered in the implementation of the remedy and discussed in the work plans and/or basis of design documentation.

Comment S12-10 - Table 1: *Information listed in the table indicates that Site wells were gauged in 2013 only. Provide or summarize historical monitoring and available free product data to support a claim of plume stability over time.*

Response – The monitoring wells in this area were installed in 2013; therefore, only 2013 data is available. Please note all data is now available in **Appendix X**.

Comment S12-11 - Table 2: *Verify concentration units and present site-specific comparison criteria. Distinguishing detected values from non-detected values (such as, via highlighting or shading) would facilitate the reader's comprehension of the Site.*

Response – The concentration units have been confirmed to be correct; however, there are no criteria for LNAPL. Locations which exceed (or do not exceed) criteria are presented on the CSM **Figure K-1**. Please note that all data tables have been moved to **Appendix X**.

Comment S12-12 - Figure 2: *Delineate or label the following items relevant to evaluation of recommendations regarding the Site: storm sewer and other underground utility locations, well locations, groundwater contours, upgradient and crossgradient source areas (AOIs) if any, surface cap locations, and public right-of-way.*

Response – **Figures 2 and 3 of the main report** show AOIs and LNAPL Extents. **Figures 5 and 6 of the main report show** the site drainage areas, storm sewers, and bulkhead locations. **Figure K1-2** will be updated with a groundwater flow direction arrow. Locations which exceed (or do not exceed) criteria are presented on the CSM **Figure K-1**. The CSM cross-section figure also

details much of the requested information.

Comment S12-13 - Attachment 2 Notes, Background, Page N2-2: *Clarify capped and non concrete/asphalt-covered areas within the Site. Property ownership, right-of-way, and utility issues should also be discussed within this section, and where appropriate, in the remedial alternative analysis.*

Response – Surface cover materials will be noted in the background section.

Comment S12-14 - Attachment 2 Notes, Geology and Hydrogeology, Page N2-2: *See Specific Comment 2 above regarding addition of a hydrogeology section (Section 2.1, pages N1-1 and N1-2, Geology and Hydrogeology), and include information relevant to Attachment 2.*

Response – This comment will be addressed in the CSM cross-sectional figure, presented as **Figure K-1**. Information regarding regional and Site geology and hydrogeology can be found in the Site RFI Reports presented in **Appendix Y**.

Comment S12-15 - Attachment 2 Notes, Number #1, Page N2-2: *Future site construction and active utility repairs in the areas may involve short-term site worker exposure scenarios. Address this concern and discuss whether methane explosive hazards and air monitoring requirements have been evaluated.*

Response – The main report will include language that future owners will conduct evaluations and address methane and vapor intrusion as necessary. In addition, additional investigation will be completed at AOI 83/84-5.

Comment S12-16 - Attachment 2 Notes, Number #2, Page N2-2: *Gross cost estimates for additional site monitoring, modeling of biodegradation rates, and calculations of methane generation rates should be considered and compared when assessing the overall cost associated with the proposed remedy.*

Response – Additional information regarding cost estimates is provided in RCBM (Table 8 of the Report) and **Appendix CC**.

Comment S12-17 - Attachment 2 Notes, Number #2, second bullet, Page N2-2: *Explain in terms of a technical basis why city sewers prevent implementation of this technology, and specify the associated risks.*

Response – Many of the storm sewers in the City of Flint are old clay-tile sewers. The heat generated by this technology could compromise the sewers potentially causing a collapse of the sewer pipe. Also, for sewers where there is a rubber gasket, high temperatures may compromise the seal that would allow groundwater infiltration. There are also older water lines, sanitary sewers, etc. (since this area was a manufacturing facility for over 100 years) that may be damaged by high temperatures. Also, increasing the water temperature in the storm sewer could

have a negative on the Flint River ecosystem.

Comment S12-18 - Attachment 2 Notes, Number #3, Page N2-2: *This section requires additional supporting documentation, such as comparisons of costs, time required for monitoring of LNAPL, etc. Persistence of free product in the subsurface may require an in-depth review of remedial treatment and removal strategies versus cost over time for LTM.*

Response – Additional information is provided in the ICM, PCEM, RTM and RCBM in the Report. Operations, monitoring and maintenance activities associated with each of the remedies will be included in the basis of design documentation.

Comment S12-19 - Attachment 2 Notes, Number #4, Page N2-2: *Provide or reference the well designations (numbers) and locations of wells (with reference to Figure 2) that support this conclusion. Consider addressing issues, such as proper well construction for monitoring of LNAPL, any change in groundwater elevation that potentially prevents identification of LNAPL in wells (for example, seasonally rising groundwater during data acquisition), changed conditions after the 2011 building demolition activities, preferential pathways such as the sewers and other conduits. Specifically, the text should state if a utility corridor has been identified in the Industrial Avenue right-of-way that lies within the potential free product plume or saturated soil area.*

Response – The LNAPL extent evaluation discussion in the main report was revised to include additional discussion of Site changes and seasonal fluctuations. Information regarding water level/ LNAPL gauging is presented in **Appendix X**. Also, please refer to the CSM cross-sectional figure presented in the Memos as well as **Figures 5 through 8** of the main report for additional information regarding Site structures utilities and the locations of wells. The presence of utilities and rights-of-way will be considered in the implementation of the remedy and discussed in the work plans and/or basis of design documentation.

The LNAPL area has recently been identified and is currently being delineated. Once additional delineation and investigation activities have been completed additional information will be provided in work plans or basis of design documentation. Please note that four additional monitoring have recently been installed along the property boundary and the extent of LNAPL has been refined based on the additional information.

Comment S12-20 - Attachment 2 Notes, Number #6, Page N2-3: *Provide an approximate description of the extent of each plume area for the recoverable and non recoverable transmissivity wells. Note if any additional wells at the Site are likely candidates for transmissivity testing. Identify whether MW-83/84-7 and MW-83/84-19 were appropriately evaluated based on subsurface lithology, to what depths these wells*

were screened, and how they were evaluated in support of the decision.

Response – This LNAPL area is currently being delineated and additional transmissivity testing is planned for this area. Additional details regarding the area to be remediated will be provided in subsequent work plans or basis of design documentation.

Comment S12-21 - Attachment 2 Notes, Number #7, Page N2-3: *This section requires additional supporting documentation, such as comparisons of costs, time required for monitoring of LNAPL, etc. Persistence of free product in the subsurface may require an in-depth review of remedial treatment and removal strategies versus cost over time for long-term monitoring.*

Response – Additional information is provided in the ICM, PCEM, RTM and RCBM in the Report. Operations, monitoring and maintenance activities associated with each of the remedies will be included

Comment S12-22 - Attachment 2 Notes, Number #8, Page N2-3: *This section should address controls for free product areas outside of the property boundary including Industrial Avenue. Additional control measures or an additional remedy selection may be required for areas not currently under control of the facility. This comment also applies to Attachment 3, Section 3.1, Institutional Control, Page N3-2.*

Response –As the AOI 83/84-5 LNAPL area has been recently identified and due to its proximity to the property boundary additional delineation and investigation activities are planned to further define LNAPL extents to the west and south. Additional details regarding the selected remedies and controls will be provided in the work plan or basis of design documentation.

Comment S12-23 - Attachment 2 Notes, Number #8, Page N2-3: *The text states that prohibiting use of groundwater for other than sampling, investigatory, remedial, or short-term dewatering purposes is proposed as part of the ICs and engineering controls for this AOI. Short-term dewatering, if conducted without appropriate collection systems, may spread hazardous constituents to areas outside of the current LNAPL plume. Inclusion of short-term dewatering with remediation is recommended only if appropriate collection systems are in place or are to be constructed. This comment also applies to Attachment 3, Section 3.1, Institutional Control, Page N3-2, Bullet 1.*

Response – Standard practice in Michigan requires all such activities be performed in compliance with applicable laws, rules and regulations.

Comment S12-24 - Attachment 3, Section 3.1, LNAPL Removal, Page N3-2: *This section should also address further investigation of the site that may present favorable conditions for product recovery. The areal extent of the plume between the two wells mentioned in this section is known to have free product present; however, no transmissivity data have been obtained here. Additionally, Figure 2*

depicts impacted areas outside of the property boundary that are not addressed within this section. The section should be revised to provide a comprehensive remedial approach identifying appropriate remedial objectives, delineating site conditions, identifying data gaps, and addressing remedial challenges associated with right-of-way and public access if applicable.

Response – The memo has been updated to reflect the data from four recently installed monitoring wells at AOI 84/84-5. The conceptual Site model (**Figure K-1**) provides a cross section of the AOI 83/84-5 Area. Also, additional transmissivity testing is planned for this area after LNAPL delineation is completed.

As the AOI 83/84-5 LNAPL area has been recently identified and due to its proximity to the property boundary additional delineation and investigation activities are planned to further define LNAPL extents to the west and south. Additional details regarding the selected remedies and controls will be provided in the work plan or basis of design documentation.

Comment S12-25 - Attachment 3, Section 3.1, Institutional controls, Page N3-2: *If Figure 2 depictions are accurate, this section should address controls for free product areas outside of the property boundary including Industrial Avenue. Additional control measures or an additional remedy selection may be required for areas not currently under control of the facility.*

Response – The memo has been updated to reflect the data from four recently installed monitoring wells at AOI 84/84-5. The conceptual Site model (**Figure K-1**) provides a cross section of the AOI 83/84-5 Area. Also, additional transmissivity testing is planned for this area after LNAPL delineation is completed.

As the AOI 83/84-5 LNAPL area has been recently identified and due to its proximity to the property boundary additional delineation and investigation activities are planned to further define LNAPL extents to the west and south. Additional details regarding the selected remedies and controls will be provided in the work plan or basis of design documentation.

Comment S12-26 - Attachment 3, Section 4, Remedies Evaluated and Not Selected, Page N3 3: *This section should also address control measures and additional remedies for on-site plume areas and areas not currently under control of the facility.*

Response – This section has been eliminated and replaced by the PCEM, RTM, and RCBM.

Specific Memo Comments - #13 – AOI 03-1 Quench Oil Area

Comment S13-1 - Attachment 1, Section 3.1, Geology and Hydrogeology Page O1-2: - *An abbreviated hydrogeology section should be added here discussing pertinent site characteristics, such as groundwater*

flow direction, hydraulic gradient, proximity to subsurface features (such as storm sewers), and preferential surface and subsurface flow features.

Response – This comment will be addressed by the CSM cross-sectional Figure L-1.

Comment S13-2 - Attachment 1, Section 3.2, Groundwater and Soil Analytical Data, Groundwater Analytical Data Page O1-2: - *This Section provides discussion of groundwater concentrations detected above applicable remediation objectives. However, only metals are discussed. A brief discussion of historically present concentrations of VOCs, semivolatile organic compounds (SVOC), and PCBs (or lack thereof) should also be included.*

Response – Additional text has been added to the Remedy Recommendation Report to clarify the comparison to applicable criteria. Only exceedances of applicable criteria are discussed in the text. Please refer to **Appendix X** for all data.

Comment S13-3 - Attachment 1, Section 3.3, LNAPL Characteristics, Natural Source Zone Depletion, Page O1-4: - The text states that laboratory analytical results indicate depletion of LNAPL at a rate of approximately 400 gallons per acre per year at AOI 03-01. Provide data and any calculations performed to support this estimate of Natural Source Zone Depletion (NSZD).

Response – The NSZD results are presented in **Table 3A and 3B of the main report** and the Southend NSZD report is presented in **Appendix Y** (Pertinent Site Reports). Also, the NSZD study is explained in further detail in the 2013 Corrective Measures Implementation (CMI) report (**Appendix Y**).

Comment S13-4 - Attachment 1, Figure 2: - The Figure appears to accurately estimate the horizontal extent of LNAPL present at this AOI. However, isoconcentration lines depicting approximate limits of soil and groundwater exceedances are not provided. A figure that shows soil and groundwater sample exceedances would help identify the extent of influence of the LNAPL on surrounding matrices, and help support remedy evaluation. Delineate or label the following items relevant to evaluation of recommendations regarding the Site: storm sewer and other underground utility locations, locations of sentinel wells (as referenced in the text), groundwater contours, upgradient and crossgradient source areas (AOIs) if any, final Outfall location associated with this AOI, and surface cap location.

Response – **Figures 2 through 8 of the main report** show the AOIs, the storm sewers, drainage areas and site utilities. The AOI 03-1 CSM cross-section figure shows the locations of the soil and groundwater exceedances. **Figure 2** will be updated with a groundwater flow direction arrow. Surface cap locations (when recommended) will be presented in the remedy recommendations attachment to the memo.

Comment S13-5 - Attachment 2 Notes, Item 7) Are Controls Required?, Page O2-3, Bullet 1: - The text states that prohibiting use of groundwater for purposes other than sampling, investigation, remediation, or short-term dewatering is proposed as part of the ICs and engineering controls for this AOI. Short-term dewatering without appropriate collection systems may spread hazardous constituents to areas outside of the current LNAPL plume. Inclusion of short-term dewatering with remediation is recommended only if appropriate collection systems are in place or are to be constructed. This comment also applies to Attachment 4 Section 3.1, Institutional Control, Page O4-2, Bullet 1.

Response – Standard practice in Michigan requires all such activities be performed in compliance with applicable laws, rules and regulations.

Comment S13-6 - Attachment 2 Notes, Item 7) Are Controls Required?, Page O2-3, Bullet 3: - The text states that prohibiting excavation to protect the integrity of the barrier is proposed as part of the ICs and engineering controls for this AOI. Barriers intended to be part of ICs and engineering controls must be designated and identified as part of long-term stewardship and monitoring. Existing integrity of proposed barriers and applicable methods for evaluating the integrity will be required as part of long-term monitoring. This comment also applies to Attachment 4 Section 3.1, Institutional Control, Page O4-2, Bullet 3.

Response – Additional information is available in the Institutional Controls section of the main report and in the IC Matrix presented as **Table 10 of the main report**. In addition details regarding monitoring of recommended remedies will be included in the Corrective Measures Implementation Work Plan and/or remedy work plan documents, as appropriate.

Specific Memo Comments - #17 – AOI 36-5 Fuel Oil Area

General Comment #6 - *The document states that a recovery system was in operation for approximately 20 years, and LNAPL is still present in measurable quantities. This fact does not justify a transition to ICs and engineering controls. Existing interim measures (IM) should have been evaluated and modified as necessary during implementation. An IM that does not achieve remedial objectives or goals should induce consideration and proposal of a different remedy approach in order to meet goals.*

Response – The recovery system is a historic IM (not current) that was operated and maintained by General Motors. There is no information available regarding the remedial objectives and goals of the system; therefore, it is unknown whether or not they were met. Also, the duration of the recovery system operation is one of factors on which the remedy recommendation is based, not the sole factor. Please refer to LNAPL Decision Tree evaluation in Attachment 2 which provides

additional discussion regarding the risk factors evaluated.

Comment S17-1 – Attachment 1, Section 1, Background, Page L1-1: *This Section provides discussion of underground storage tanks (UST) that were present within this AOI. The text explicitly indicates that two tanks were removed and that a release from this AOI is the source the plume. A summary of the contents and sizes of USTs historically present within this AOI should be presented.*

Response – The number, size and contents of the USTs was added to Attachment 1. Also, please refer to the report "Description of Current Conditions for Areas North of Leith Street," dated November 26, 2000 for further discussion of USTs in AOI 36-5.

Comment S17-2 – Attachment 1, Section 3.1, Geology and Hydrogeology, Page L1-2: *An abbreviated hydrogeology section should be added here discussing pertinent site characteristics, such as groundwater flow direction, hydraulic gradient, proximity to subsurface features (such as storm sewers), and preferential surface and subsurface flow features.*

Response – Response – This comment will be addressed in the CSM cross-sectional figure, presented as **Figure N-1**.

Comment S17-3 - Attachment 1, Section 3.2, Groundwater and Soil Analytical Data, Groundwater Analytical Data, Page L1-3: *This Section provides discussion of a comparison of groundwater concentrations as of September 26, 2012 (sic), to the applicable remediation objectives. A brief discussion of historical presence of metals, VOCs, semivolatile organic compounds (SVOC), and PCBs concentrations (or lack thereof) should also be included.*

Response – Please note that September 28, 2012 was the published date of the criteria, not a comparison of groundwater data collected up to that date. All historical data was included in the comparison to criteria. Also, the criteria were recently updated on December 30, 2013, so all data (current and historical) will be compared to the most recent criteria.

Comment S17-4 - Attachment 1, Section 3.3, LNAPL Characteristics, LNAPL Analytical Data, Page L1-3: *The text states that trichloroethene (TCE) was detected at a concentration that is potentially characteristically hazardous at one location (20-503). The following items should be clarified: (1) TCE concentration there, (2) extent of impacts related to that TCE, and (3) whether any evaluation related to risks posed by that TCE occurred.*

Response – Acknowledged. Additional detail will be added to the memo to note that the concentration of TCE was 1.5 mg/kg in LNAPL and that the HHRA completed during the Phase II RFI Report did not identify any risks associated with the AOI 36-5 LNAPL Area.

Comment S17-5 - Attachment 1, Section 3.3, LNAPL Characteristics, Transmissivity, Page L1-3: *The text states that an insufficient thickness of LNAPL is present to conduct transmissivity testing. More than 3 feet of LNAPL is present in monitoring well 20-502. Specify the thickness of LNAPL required for transmissivity testing, and provide justification for not conducting transmissivity testing within this AOI.*

Response – An expanded discussion of LNAPL transmissivity testing will be included in the main report, as well as conditions that preclude the ability to conduct transmissivity testing.

Comment S17-6 - Attachment 1, Table 2: *Include notes for all acronyms used in this table.*

Response – A list of acronyms used in the data tables will be included in **Appendix X** of the Report.

Comment S17-7 - Attachment 1, Figure 2: *The Figure appears to accurately estimate the horizontal extent of LNAPL present within this AOI. However, isoconcentration lines depicting approximate limits of soil and groundwater exceedances are not provided. A figure that shows soil and groundwater sample exceedances would help identify the extent of influence of the LNAPL on surrounding matrices, and help support remedy evaluation. Delineate or label the following items relevant to evaluation of recommendations regarding the Site: storm sewer and other underground utility locations, locations of sentinel wells (as referenced in the text), groundwater contours, upgradient and crossgradient source areas (AOIs) if any, final Outfall location associated with this AOI, and surface cap location.*

Response – **Figures 2 and 3 of the main report** show AOIs and LNAPL Extents. **Figures 5 and 6 of the main report** show the site drainage areas, storm sewers, and bulkhead locations. **Figure 2** will be updated with a groundwater flow direction arrow. Locations which exceed (or do not exceed) criteria are presented on the CSM **Figure N-1**. The CSM cross-section figure also details much of the requested information.

Comment S17-8 - Attachment 2, Item 7) Are Controls Required?, Page L2-3, Bullet 1: *The text states that prohibiting use of groundwater for purposes other than sampling, investigation, remediation, or short-term dewatering is proposed as part of the ICs and engineering controls for this AOI. Short-term dewatering without appropriate collection systems may spread hazardous constituents to areas outside of the current LNAPL plume. Inclusion of short-term dewatering with remediation is recommended only if appropriate collection systems are in place or are to be constructed. This comment also applies to Attachment 4 Section 3.1, Institutional Control, Page O4-2, Bullet 1.*

Response – Standard practice in Michigan requires all such activities be performed in compliance with applicable laws, rules and regulations.

Comment S17-9 - Attachment 2 Notes, Item 9) Are Controls Required?, Page L2-3, Bullet 3: *The text states that prohibiting excavation to protect the integrity of the barrier is proposed as part of the ICs and engineering controls for this AOI. All barriers intended to be part of ICs and engineering controls must be designated and identified as such as part of long-term stewardship and monitoring. Existing integrity and applicable methods for evaluating the integrity will be required as part of long-term monitoring. This comment also applies to Attachment 3 Section 3.1, Institutional Control, Page L3-2, Bullet 3.*

Response – Additional information is available in the Institutional Controls section of the main report and in the IC Matrix presented as **Table 10 of the main report**. In addition details regarding monitoring of recommended remedies will be included in the Corrective Measures Implementation Work Plan and/or remedy work plan documents, as appropriate.

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MEMO

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From:
Micki M. Maki
Victoria Stacey

Date:
August 17, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
Group #2 - Response to USEPA Comments on Priority #6 – AOI 81-2 Cutting Oil LNAPL Area, Priority #7 – AOI 83/84-2 Cutting Oil LNAPL Area, Priority #9 – AOI 83/84-1 Cutting Oil LNAPL Area, and Priority #11 – AOI 40-A, B & 16-C Fuel Oil LNAPL Areas Evaluation and Remedy Recommendation Memos
Buick City Site, Flint, Michigan

This memo provides responses to the comments received from USEPA on February 14, 2014 on Priority #6 – AOI 81-2 Cutting Oil LNAPL Area, Priority #7 – AOI 83/84-2 Cutting Oil LNAPL Area, Priority #9 – AOI 83/84-1 Cutting Oil LNAPL Area, and Priority #11 – AOI 40-A, B & 16-C Fuel Oil LNAPL Areas Evaluation and Remedy Recommendation Memos (Memos).

Please note that the general comments on the Remedy Recommendations Report (Report) from each set of comments were grouped together as appropriate and one response is provided. For the comments that appeared in several sets of comments, we have noted them by beginning with a G then using the Priority # - Comment #. For example, General Comment 1 from Priority #10 memo is referred to as comment G6-1. Specific comments are named similarly, but they begin with an S.

General Comments

Comment G6-1 - *The summary and decision tree require inclusion of targeted excavation as part of the proposed remedy selection.*

Response – Targeted excavation will be added to the cover letter, the notes for the decision tree in Attachment 2, and in Attachment 4.

Comments G6-2, G7-2, G9-1, and G11-1 - *Although the memorandum is not at the Statement of Basis stage, it should document that all reasonably applicable technologies have been identified and properly screened, that remedial timeframes for the recommended remedy are reasonable and to define the steps to monitor effectiveness of the remedy. Additions to the Remedy Recommendation Report summary will include a summary of the bench scale testing and also, as far as this is possible for multiple AOIs, a discussion of timeframes and monitoring of remedial effectiveness.*

Response – This comment will be addressed by the addition of the Remedial Technology Matrix (RTM), the Institutional Controls Matrix (ICM), and the Bench–Scale Testing Matrix (BSTM) as tables to the main report. The RTM will summarize the technologies evaluated for each AOI and the rationale for selecting or eliminating the technology. The ICM will provide a summary of the Site-wide institutional controls to be implemented. The BSTM will present a summary of the results of bench-scale testing activities conducted at the Site.

Operations, monitoring and maintenance activities associated with each of the remedies will be included in the design or work plan documentation. Documentation will also include details regarding how the effectiveness of remedies will be monitored; frequency of monitoring; what items would trigger re-evaluation, repair or replacement of the remedy; as well as the time frame and end points of monitoring.

Comments G6-3, G9-2, and G11-2 - *Expanded discussion of various remedial technologies evaluated for this Site is recommended. Remedies Evaluated and Not Selected. Proper evaluation of site remedial technologies includes estimated effectiveness, biodegradation rates, remedial timeframes, and risk control measures. This is best addressed in the Remedy Recommendation Report summary as to not add multiple sections to the individual recommended remedy reports for the LNAPL in appendices A-Q.*

Response – This comment will be addressed by the addition of the RTM as Table 7 to the Report.

Comment G6-4 - *The 2010 Revised Corrective Measures Proposal – Addendum No. 2 (ARCADIS 2010) states that Motors Liquidation Company (MLC) agreed to actively remediate AOIs containing light non-aqueous phase liquid (LNAPL) as part of the corrective measures for the Site. It also states that the remedial goal for this AOI is to remove LNAPL to the extent practical, and that a passive recovery trench was proposed as a remedy. This document should provide a discussion of why this change in initial proposed remedial strategy has occurred, and should present all pertinent data to justify this change.*

Response – This comment will be addressed in the body of the main Report, in Section 1.1, by

the inclusion of a more detailed history of the development of the Corrective Measures Proposal (CMP) (and its addenda) and the Southend Statement of Basis.

Comments G6-5 and G11-3 - *Although the text concisely summarizes site characteristics, it remains unclear if conclusions regarding the downgradient portion of the Site are appropriate considering other factors such as presence of oil-saturated soils above the water table, presence of free product, and accumulation of methane byproducts in vapor phase. A discussion is warranted assessing whether the recommended remedy is more effective, less costly, and can more adequately address risks in a timely manner than other remedial alternatives or combination of alternatives. This may be handled in referencing previous remedy screening exercises or summarizing each LNAPL AOI remedy screening in the Remedy Recommendation Report.*

Response – This comment will be addressed by the addition of the RTM, the Preliminary Remedy Cost Evaluation Matrix (PCEM), and the Remedy Cost Benefit Matrix (RCBM) as tables to the Report. In addition, conceptual site models (CSM), which present combined areal and cross-sectional views of the AOIs, will be presented in the appendices presenting the AOI-specific Remedy Recommendation Memos. A discussion of the vapor phase has been added to the amin report as well as the LNAPL remedy recommendation memos.

Comments G6-6, G7-15, G9-8, and G11-4 - *The term "institutional control" (IC) should be defined and used appropriately, but not when specifically referencing engineering controls (see Institutional Controls: A Guide to Planning, Implementing, Maintaining, and Enforcing Institutional Controls at Contaminated Sites [EPA 2012]). A combination of control measures, including both ICs and engineering controls, may be required to address risks as identified at AOI 81-2. For proper placement of engineering controls, provide calculations and data to support the determination of where engineering controls are to be placed, including a more specific discussion of the risk posed.*

Response – This comment will be addressed by the addition of the ICM as Table 10 to the main report as well as by including discussion of Institutional Controls (IC) and the vapor phase pathway in the main body of the Report. The obligation to complete an evaluation of potentially unacceptable exposure to vapor intrusion should a future owner want to build a structure on the site will be required by a proposed Restrictive Covenant to be placed on the property.

Comments G6-8 and G11-5 - *Reasonable remedial timeframes and costs of the recommended alternative should be directly compared to applicable active remedial alternatives and costs to determine if feasible options exist.*

Response – This comment will be addressed by the addition of the PCEM, the RTM and the

RCBM as tables to the main report.

Comments G6-9, G7-13, G9-6, and G11-6 - *Additional modifications to the decision tree may be required to support conclusions and recommendations of decision documents. If a combination of engineering controls and ICs is the selected alternative, EPA approval and long-term monitoring (LTM) will also be requirements and should be added to the decision tree.*

Response – Text regarding EPA approvals has been added to the body of the main report.

Comments G6-10 and G11-7 - *LNAPL is present, but no evaluation appears in this document of low-cost, mass contaminant removal, its effectiveness, and its impact on remediation timeframes. A discussion is warranted regarding both small and larger scale active remediation alternatives to monitored natural attenuation (MNA), such as bio-slurping, bioventing, recovery trench, enhanced in situ biodegradation, in situ chemical oxidation, and potentially others. A demonstration of how removal of LNAPL does not result in a decreased risk for this AOI is also warranted. A more comprehensive summary of the bench-scale testing results should be presented as part of this comparison.*

Response – We have evaluated Site conditions and selected appropriate remedies which were further evaluated and are summarized in the RTM, PCEM, and RCBM tables in the Report. In addition results of the bench-scale testing activities are summarized in the BSTM table of the Report. Also Attachments 2 and 3 summarize the risks associated with LNAPL areas and recommend remedies to appropriately address the risks.

Comments G6-11 and G11-8 - *Gross costs estimates for additional site monitoring, modeling of biodegradation rates, and calculations of methane generation rates should be considered when assessing the overall cost associated with the proposed remedy.*

Response – As discussed above, the obligation to complete an evaluation of potentially unacceptable exposure to vapor intrusion should a future owner want to build a structure on the site will be required by the proposed Restrictive Covenant to be placed on the property. It is acknowledged that the cost estimates for the selected remedies will include necessary monitoring.

Comment G6-12 - *Although it is recognized that additional information will be included as part of the 761.61(c) risk-based cleanup and disposal, some basic requirements are not currently included. The request should include (1) a remediation plan, contingency plan, and schedule for performing the target excavations; (2) a quality assurance and quality control plan that will document achievement of cleanup levels after completion of target excavation; and (3) a human health risk assessment that justifies leaving polychlorinated biphenyls (PCB) in place above criteria.*

Response – Additional information will be included in remedy implementation work plan and/or design documentation.

Comment G7-1 - *Site-specific information is an important component for evaluation of the recommended remedy, but details and specific references are lacking. Although the Memorandum is not intended to provide a comprehensive history of AOI activities, specific references to sections containing supporting information should be included so the reader can understand the bases of recommendations. Changes to the information presented in the Revised RCRA Corrective Measures Proposal Addendum No.2, 2010 (CMP) based on new site data (Arcadis 2010) should be highlighted throughout the text. Specific examples would include, but would not be limited to, modified remedy details, cost impacts, and changes to exposure risk pathways and site features.*

Response – This comment will be addressed in the body of the main Report, in Section 1.1, by the inclusion of a more detailed history of the development of the Corrective Measures Proposal (CMP) (and its addenda) and the Southend Statement of Basis. In additional please refer to the remedy and report cross reference presented in Table 1.

Comment G7-3 - *The evaluation of the recommended remedy should also address or reference each individual area, be media-specific, and address the risk and the pathway. Requiring discussion as well are specific site conditions and surface and subsurface characteristics that are bases of the proposed remedy selection, as well as the methods proposed to monitor effectiveness of the remedy.*

Response – The requested information is presented in Attachments 1 and 2 of the memo. Also, the Report contains additional information regarding the exposure pathways and risks. Methods of monitoring effectiveness of the remedy will be detailed in the Remedy Implementation Work Plan and/or basis of design documentation.

Comment G7-4 - *Additional information should be presented regarding the associated dissolved phase plume, vapor phase plume, and locations of groundwater and soil exceeding screening criteria.*

Response – There is no dissolved phase plume associated with this LNAPL Area. An evaluation of the vapor phase is presented in Attachment 1. The Attachment 3 Figure present the extent of engineering controls required to mitigate risks associated with soil impacts. In addition the locations of exceedances are noted on the CSM cross-sectional figures, presented in each memo.

Comment G7-5 - *The text should discuss specific and relevant information regarding excavation of polychlorinated biphenyl (PCB) impacted soil, PCB-containing soil remaining in place, and potential for free product to act as a continuing source. Institutional controls (IC) and engineering controls (EC) should be presented and discussed as these relate to current site conditions. Information within*

these categories will support selection of a recommended remedial approach to the site, and will be referenced during the Corrective Measures Implementation Work Plan (CMI WP) phase.

Response – Additional information can be found in Attachments 3 and/or 4 of the memos regarding PCB-impacted soils and institutional and engineering controls. Also, as discussed in Attachment 2 the LNAPL was identified as a compositional concern due to direct contact, inhalation and volatilization issues and as a saturation concern as it is mobile but not migrating. The proposed remedies address these concerns.

Comment G7-6 - *Existing data gaps that have been identified for inclusion in the CMI WP phase should be discussed generally to ensure that no technical issues will remain to potentially impact or change the recommendation and selection of a remedy.*

Response – Additional data will be collected to refine remedies or provide supplemental information. The scope of work for any additional activities will be included in a remedy investigation work plan.

Comment G7-7 - *Expanded discussion of exposure pathways and associated risk should be presented in relation to the recommended remedies. For example, construction-specific details of bulkhead installation activities are required to support and assess determinations of Groundwater Surface Water Interface pathway, and to provide relevant information regarding recent activities at the Site.*

Response – Attachments 2 and 3 (or 4) of the memos present discussions of the exposure pathways and their associated risks. Additional exposure pathway discussions are presented in the Report in Section 3. Construction specific details of the bulkheads were included in the EPA approved work plans.

Comment G7-8 - *An expanded discussion of potential for light non-aqueous phase liquid (LNAPL) recovery and possible geographical extent of LNAPL is warranted. Recommendations regarding applications of remedial technologies at the Site should include a discussion of estimated effectiveness, biodegradation rates, and remedial timeframes. Additional information is required to identify remedial objectives, specify NFA closure requirements, and demonstrate adequacy of the selected remedy to achieve remedial objectives.*

Response – This comment will be addressed by the addition of the RTM, PCEM, RCBM and BSTM as tables to the Report. In addition, a Conceptual Site Model is presented in Attachment 1 of the memo and **Figures F-1 and F-2**.

Comment G7-9 - *Text discussing excavation of PCB-impacted soil should be expanded to briefly summarize the general purpose and objective of the removal, criteria for implementing*

excavation, investigation derived waste (IDW) management, and site restoration and monitoring activities following removal.

Response – **Attachment 3** of the memos contains additional information about excavation of PCB-impacted soils. The scope of work for these activities will be included in the Remedy Implementation Work Plan and/or basis of design documentation.

Comment G7-12 - *Reasonable remedial timeframes and costs of the recommended alternative should be discussed. Specifically, presence of free product may lead to extended long-term monitoring (LTM) timeframes. Although soil exceedances are generally discussed in the Resource Conservation and Recovery Act (RCRA) Facility Investigation Phase II report (Blasland, Bouck & Lee Inc. [BBL] 2006) and the CMP (Arcadis 2010), no conclusions or determinations are included regarding (1) presence of PCBs in saturated soil and (2) free product with potential to affect groundwater in the future.*

Response – This comment will be addressed by the addition of the RTM, PCEM, and RCBM as tables to the Report.

Comment G7-14 - *An expanded discussion of methane generation and its potential impacts should be considered when assessing the overall cost of the proposed remedy. Also, specific information should be provided or referenced regarding existing and anticipated post-excavation site surface cap and coverage, as well as adequacy of this as an EC.*

Response – This comment will be addressed by the addition of the RTM, PCEM, and RCBM as tables to the Report. The extent of the site surface caps is also noted on figures accompanying the memos. The scope of work for specific excavation activities will be included in an remedy implementation work plan and/or design documentation.

Specific Memo Comments - #6 – AOI 81-2 Cutting Oil LNAPL Area

Comment G6-7 - *The document states that a recovery system was in operation for approximately 17 years, and LNAPL is still present in measurable quantities. This fact does not justify a transition to ICs and engineering controls. Existing interim measures (IM) should have been evaluated and modified as necessary during implementation. An IM that does not achieve remedial objectives or goals should induce consideration and proposal of a different remedy approach in order to meet goals.*

Response – Operation of the recovery system at AOI 81-2 had reached a point of diminishing value after 17 years of operation; therefore, continued operation was not warranted. Also, the duration of the recovery system operation is one of factors on which the remedy recommendation is based, not the sole factor. Please refer to LNAPL Decision Tree evaluation in **Attachment 2** which provides additional discussion regarding the risk factors evaluated using the

current Site conditions. Although LNAPL is still present in measurable quantities, it is no longer appropriate to pursue product recovery at this location. Based on the risks associated with the AOI 81-2 LNAPL Area targeted excavation and institutional controls are appropriate.

Comment S6-1 - Attachment 1, Section 3.1, Geology and Hydrogeology, Page F1-2*: An abbreviated hydrogeology section should be added here discussing pertinent site characteristics, such as hydraulic gradients, proximity to subsurface features (such as storm sewers), and preferential surface and subsurface flow features. Depth to groundwater value is missing from the text.*

Response – This comment will be addressed in the CSM cross-sectional figure, presented as **Figure E-1**. Information regarding regional and Site geology and hydrogeology can be found in the Site RFI Reports presented in **Appendix Y**. The locations of the Site bulkheads are presented on **Figures 5 and 6 of the main report**.

Comment S6-2 – Attachment 1, Section 3.2, Groundwater and Soil Analytical Data, Groundwater Analytical Data, Page F1-3: *This Section provides discussion of groundwater concentrations detected above applicable remediation objectives. A brief discussion of historically present concentrations of semivolatile organic compounds (SVOC), volatile organic compounds (VOC), PCBs, and metals (or lack thereof) should also be included.*

Response – Only exceedances of applicable criteria are discussed in the text. Please refer to **Appendix X** for all data. Information regarding historical investigations can be found in the Site RFI Reports presented in **Appendix Y**

Comment S6-3 – Attachment 1, Section 3.2.2, Soil VOC, SVOC, and Metals Analytical Data, Page F1-3: *The text states that exceedances in soil detected outside the plume were addressed in the 2010 Corrective Measures Proposal Addendum #2. A reference to an applicable removal action completion report to verify that the soil exceedances have been properly addressed should be included.*

Response – The soils from 81-2 are discussed and a remedy is recommended in the 2010 CMP; however, no remedy has been implemented as the Final Decision for the Northend of the Site has not been issued.

Comment S6-4 - Attachment 1, Section 3.3, LNAPL Characteristics, LNAPL Analytical Data, Page F1-4: *The text states that arsenic was detected at a concentration potentially characteristically hazardous. The following items should be clarified: (1) arsenic concentration detected, (2) extent of impacts related to arsenic, and (3) whether any evaluation related to risks posed by arsenic occurred.*

Response – The proposed remedy is targeted excavation; therefore waste characterization analysis will be completed to ensure that the waste is properly disposed of. Also,

as discussed in our March 6, 2014 meeting, the text in this section has been updated to '*Concentrations of arsenic exceed TCLP criteria; however, TCLP analysis has not been conducted'*. Analytical data are presented in **Appendix X**.

Comment S6-5 - Attachment 1, Section 3.3, LNAPL Characteristics, Transmissivity, Page F1-5: *The text states that LNAPL transmissivity values were determined from results of four quarters of LNAPL baildown tests. If these baildown test data have not yet been presented, the data should be included for review.*

Response – One transmissivity testing event was completed at AOI 81-2.The transmissivity data are presented in **Table 2 of the main report**.

Comment S6-6 – Attachment 1, Section 3.3, LNAPL Characteristics, Natural Source Zone Depletion, Page F1-5: *The text states that a Natural Source Zone Depletion (NSZD) study was conducted in this AOI. If the NSZD study data have not yet been presented, the data should be included for review.*

Response – The NSZD data are presented in **Tables 3A and 3B of the main report. In** addition, the *Southend Natural Source Zone Depletion Evaluation and Results Memo* is presented in **Appendix Y**.

Comment S6-7 – Attachment 1, Table 2: *Verify concentration units and include notes for all acronyms used in this table.*

Response – The concentration units have been confirmed to be correct. Please refer to the acronym list in the main report and table acronyms presented in **Appendix X** for definition of qualifiers.

Comment S6-8 – Attachment 1, Figure 2: *The figure appears to accurately estimate the horizontal extent of LNAPL present at this AOI. However, isoconcentration lines depicting approximate limits of groundwater surface water interface (GSI) exceedances are not shown. In addition (along with isoconcentration lines), a figure identifying soil sample exceedances would help identify the extent of influence of the LNAPL on surrounding matrices.*

Response –The locations that exceed (or do not exceed) criteria are presented on the CSM **Figure E-1** and data tables are presented in **Appendix X**.; however, isoconcentration lines are not necessary and have not been added to the figures

Comment S6-9 – Attachment 1, Figure 3: *Revise figure to present extent of PCB concentrations in soil above applicable criteria.*

Response – There are no PCB concentrations in soil above applicable criteria. A note has been added to the **Figure E3-1** indicating that there are no exceedances.

Comment S6-10 – Attachment 1, Figures 2 and 3: *Delineate or label the following items relevant to evaluation of recommendations regarding the Site: storm sewer and other underground utility locations, locations of sentinel wells (as referenced in the text), groundwater contours, upgradient and crossgradient source areas (AOIs) if any, final Outfall location associated with this AOI, and surface cap location.*

Response – These items are shown on the CSM (**Figure E-1**), **Figures 2, 5 and 7 in the main report**, and/or figures in **Attachments 1 and 3**.

Comment S6-11 – Attachment 2 Notes, Item 8) Are Controls Required?, Page F2-3, Bullet 1: *The text states that prohibiting use of groundwater for purposes other than sampling, investigation, remediation, or short-term dewatering is proposed as part of the ICs and engineering controls for this AOI. Short-term dewatering without appropriate collection systems may spread hazardous constituents to areas outside of the current LNAPL plume. Inclusion of short-term dewatering with remediation is recommended only if appropriate collection systems are in place or are to be constructed.*

Response – Standard practice in Michigan requires all such activities be performed in compliance with applicable laws, rules and regulations.

Comment S6-12 – Attachment 2 Notes, Item 8) Are Controls Required?, Page F2-3, Bullet 3: *The text states that prohibiting excavation to protect the integrity of the barrier is proposed as part of the ICs and engineering controls for this AOI. Barriers intended to be part of ICs and engineering controls must be designated and identified as part of long-term stewardship and monitoring. The integrity of proposed existing barriers and applicable methods for evaluating the integrity will be required as part of long-term monitoring. This comment also applies to Attachment 4 Section 3.3, Institutional Controls, Page 2/3, Bullet 2*.

Response – The surface cover and low occupancy controls will be shown on **Figure E3-2**. A monitoring plan will be developed as part of the remedy implementation work plan documentation.

Specific Memo Comments - #7 – AOI 83/84-2 Cutting Oil LNAPL Area

Please note that two of the general comments for the Priority #7 memo were specific comments, so they are addressed here.

Comment G7-10 - *The text should discuss the approximate geographical extent proposed for potential free product recovery and excavation of PCB-impacted soil. That portion of the 95,400 square feet impacted by LNAPL noted in the text should be distinguished from areas not to be actively remediated.*

Response – The proposed extent of excavation will be included in **Attachment 3** and in the remedy implementation work plan. Please note that LNAPL recovery is not a proposed remedy for

this area.

Comment G7-11 - *Effectiveness of the wells to monitor the plume should be discussed based on proximity of the monitoring wells to the plume, recommended excavation of PCB-impacted soil, and hydraulic gradients and flow direction at the Site. Provide specific information regarding the integrity inspection and maintenance of the storm sewer, or provide a reference to a source addressing these activities.*

Response – Please note that the storm sewers in the AOI 83/84-2 LNAPL Area have been bulkheaded. Specific information regarding future monitoring of the remedies will be included in the remedy implementation work plan.

Comment S7-1 - Attachment 1, Section 2.1, LNAPL Monitoring and Bailing Program, Page G2-1: *Results of Laser Induced Fluorescence (LIF) indicate LNAPL impacts as deep as 12 feet below ground surface (bgs), while the following section, Groundwater/LNAPL Levels, states that groundwater is generally at 10 feet bgs. The text should reference or discuss historical fluctuations in groundwater elevations in relationship to measurements of free product, and whether different apparent free product thicknesses could result from these groundwater fluctuations.*

Response – As stated in **Attachment 1** the groundwater level has fluctuated from 6 to 14 feet bgs in this portion of the Site. Correlations between the depth to groundwater and LNAPL thicknesses are not evident at AOI 83/84-2. Groundwater/LNAPL gauging data are presented in **Appendix X**.

Comment S7-2 - Attachment 1, Section 2.2, Product Recovery System, Page G1-2: *Provide the location and current status of the Building 32 recovery well, if available, and clarify what information is available. Specifically discuss the location of the process waste system for the Site and its geographical relationship to the plume. Provide or reference the waste process system and the evaluation of it as a separate and potential source of cutting oil LNAPL. Additionally, the Memorandum text and Section 5.4.2.1 of the CMP state that two basements are associated with Building 32. Discuss location and status of these structures, and the geographical relation of these features to the plume area.*

Response – The location of the former Building 32 recovery well has been added to **Figure F1-2**. The recovery well was no longer operational as of 2001. The process waste system is located approximately a half mile northeast of former Building 32 and was investigated as part of the RCRA Facilities Investigation. **Figure F1-2** notes the former basement and tunnel locations, which were filled in during demolition.

Comment S7-3 - Attachment 1, Section 3.1, Geology and Hydrogeology, Page G1-2: *An abbreviated hydrogeology section should be added to this section to discuss pertinent site characteristics, such as hydraulic gradient, proximity to subsurface features (e.g., vaults and storm sewers), and preferential*

surface and subsurface flow features. Groundwater elevations, as well as proximities and elevations of bulkhead construction modifications, are pertinent, and should be summarized or referenced.

Response – This comment will be addressed in the CSM cross-sectional figures, presented as **Figure F-1 and F-2**. Information regarding regional and Site geology and hydrogeology can be found in the Site RFI Reports presented in **Appendix Y**. The locations of the Site bulkheads are presented on **Figures 5 and 6 of the main report**.

Comment S7-4 - Attachment 1, Section 3.2, Groundwater and Soil Analytical Data, Page G1-3**:** *Provide locations of soil exceedances, and discuss their hydrologic relationship to the 83/84-2 plume and observed soil impacts. Rationale for the claim that soil exceedances are not related to AOI 83/84-2 should be summarized. Statements in Section 3.2.1 regarding groundwater analytical data generally contradict text in RCRA Facility Investigation Phases I and II and CMP reports indicating exceedances in groundwater of screening criteria for volatile organic compounds (VOC) and inorganic constituents. Clarify the statements regarding these constituents. The text should include or reference analytical results at AOI 83/84-2 that exceed screening criteria, and should provide specific screening levels.*

Response – Locations that exceed (or do not exceed) criteria are presented on the CSM **Figures F-1 and F-2**. Please note that all data tables are presented in **Appendix X**. The soil exceedances are now all discussed in the AOI 83/84-2 LNAPL Remedy Recommendations Memo and the AOI 83/84-2 soil memo has been eliminated. Please note that while this report may differ from previous reports, both the Site conditions and MDEQ criteria and sampling/analysis protocols have changed numerous times since 2002. The evaluation of data in this memo is based on current MDEQ criteria and current site conditions. Please refer to the main report for additional discussion of applicable criteria and pathways.

Comment S7-5 - Attachment 1, Section 3.3, LNAPL Characteristics, LNAPL Analytical Data, Page G1-4: *The text states that "The LNAPL contains lead at concentrations that are potentially characteristically hazardous at MW-83/84-10." A discussion of why the concentrations are only "potentially" hazardous should appear in this document. The discussion should include a description of the recommended remedy, and an assessment of whether that remedy would address these concentrations.*

Response – The proposed remedy is targeted excavation; therefore, waste characterization analysis will be completed to ensure that the waste is properly disposed of. Also, as discussed in our March 6, 2014 meeting, the text in this section has been changed to *'The LNAPL contains lead* at concentrations that exceed RCRA toxicity characteristic criteria at one location (MW-83/84-10); *however, TCLP analysis has not been conducted'*. Analytical data are presented in **Appendix X.**

Comment S7-6 - Attachment 1, Section 3.3, LNAPL Characteristics, Natural Source Zone Depletion, Page G1-4: *The text states that natural source zone depletion (NSZD) occurs in the south end. The text does not extrapolate this or indicate likelihood of methane generation at 83/84-2 as a result of NSZD. Installation of a methane monitoring network would be necessary to demonstrate that (1) methane generated does not interfere with long-term stewardship and any proposed ICs/ECs, and (2) no immediate exposure risk is currently present as a result of elevated methane.*

Response – A methane monitoring network is not necessary to evaluate the potential methane issue as there are no buildings on Site. At locations where there are potential methane issues are identified at the property boundary methane will be further investigated. In addition, as discussed in the main report institutional controls will include language that future owners will conduct evaluations and address methane and vapor intrusion as necessary. Also, a discussion of the vapor phase pathway has been added to the main report (Section 3.4) and to Attachment 1 of each of LNAPL area memos.

Comment S7-7 - Tables 1-3: *Verify concentration units and present site-specific screening criteria. Distinguishing detected values from non-detected values (e.g., via highlighting or shading) would facilitate the reader's comprehension of the Site.*

Response – The concentration units have been confirmed to be correct; however, there are no criteria for LNAPL. Please note that all data tables have been moved to **Appendix X**.

Comment S7-8 - Figure 2: *Delineate or label the following items relevant to evaluation of recommendations regarding the site: basements, vaults, storm sewer bulkhead locations, historical recovery well locations, groundwater contours, adjacent AOIs, and surface cap locations.*

Response – These items requested are presented on shown on the CSM (**Figure F-1 and F-2**), **Figures 2, 5 and 6 of the main report**, and/or figures in **Attachments 1 and 3**.

Comment S7-9 - Attachment 2 Notes, Geology and Hydrogeology, Page G2-2: *See Specific Comment 3 above regarding addition of a hydrogeology section (Section 3.1, page G1-2, Geology and Hydrogeology), and include information relevant to Attachment 2.*

Response –This comment will be addressed in the CSM cross-sectional figures, presented as **Figure F-1 and F-2**. Information regarding regional and Site geology and hydrogeology can be found in the Site RFI Reports presented in **Appendix Y**.

Comment S7-10 - Attachment 2 Notes, Number #3, Page G2-2: *This section requires additional supporting documentation, such as comparisons of costs and time required for monitoring of LNAPL. Persistence of free product in the subsurface may require an in-depth review of remedial*

treatment/removal strategies versus cost over time for LTM. As noted, additional revisions from the EPA meeting on January 9, 2014, are required.

Response – The comparisons of cost and time of the evaluated remedies are presented in the RTM, PCEM, and RCBM tables of the main report. **Attachment 2** of the memo evaluates the compositional and saturation concerns associated with the presence of LNAPL in the subsurface to determine what risks are present and need to be addressed. The comments from the January 9, 2014 were addressed.

Comment S7-11 - Attachment 2 Notes, Number #5, Page G2-3: *Presence of LNAPL at Outfalls 003 and 005 would indicate mobility of LNAPL outside the LNAPL perimeter, and would require inspection and identification of entry points within the sewer walls that allow the utility to act as a conduit or pathway for contaminant migration to the outfalls. The text should state whether the utility corridor has been inspected, and if any compromised section of the utility was identified within the potential free product plume or saturated soil areas. Specific references to 003 and 005 bulkhead construction locations and activities are recommended. Additionally, it is not clear if the groundwater to surface water interactions along the utility conduits have been investigated or documented. Required are discussion and reference to existing information that demonstrates lack of risk from a dissolved phase discharge to the Flint River.*

Response – The Outfall 003 and 005 storm sewers intersect the LNAPL area as shown on the CSM **Figures F-1 and F-2**; therefore, this is not an indication of LNAPL mobility outside of the stable perimeter, but a preferential pathway. Eliminating the preferential pathway will eliminate the potential for exposure. Site investigation activities indicated the presence of LNAPL infiltration at both storm sewers; therefore bulkheads were installed to eliminate these pathways. The location of the Storm sewer bulkheads are presented on Figure 4 of the main Report. The NPDES Plus Monitoring Program was implemented, with EPA and MDEQ concurrence, to address GSI concerns at the Site's storm sewers. This program is discussed in further detail in Section 2.2.1 of the main report, **Attachment 1** of the AOI 83/84-2 Remedy Recommendation Memo, and **Appendix BB**.

Comment S7-12 - Attachment 2 Notes, Number #7, Page G2-3: *This section requires additional supporting documentation, such as comparisons of costs and time required for monitoring of LNAPL. Persistence of free product in the subsurface may require an in-depth review of remedial treatment/removal strategies versus cost over time for LTM.*

Response – This comment will be addressed by the addition of the RTM, PCEM, and RBCM as tables to the Report.

Comment S7-13 - Attachment 3, Number 5, Renamed to Risk Based Procedure, Page G3-2: *This section must include information regarding site conditions and details following excavation of PCB-contaminated soil. As noted within the text, to allow continued presence of PCB concentrations above 1 part per million (ppm), all requirements listed in Code of Federal Regulations (CFR) 761.61(c) must be satisfied, no unreasonable risk to human health and the environment must be demonstrated, and EPA approval must be obtained.*

Response – Specific information regarding the excavation design and subsequent area restoration will be included in the remedy implementation work plan documentation. The approximate extent of the excavation is presented on **Figure F3-2**.

Comment S7-14 - Attachment 4, Number 2, Remedy Recommendation Rationale, Page G4-1 and G4-2: *The CMP Section 2.3 and 5.3.states that Motors Liquidation Company (MLC) agreed to actively remediate AOIs containing LNAPL as part of the corrective measures for the Site. It also states that the remedial goal for this AOI is to remove LNAPL to the extent practical, and that a multiple phase extraction was proposed as a remedy. This document should provide a more detailed technical discussion explaining why this change in initial proposed remedial strategy has occurred, and should present expanded discussion of costs, timeframes, and NFA criteria related to the change.*

Response – Every proposed remedy is based on the most current site characterization and the related Conceptual Site Model. Prior remedy proposals attributable to Motors Liquidation Company are by definition outdated and essentially superseded by the best current information. Where a Conceptual Site Model supports application of MPE it has been proposed (AOI 36-1/36-2). Where Institutional Controls are appropriate they are relied on as a component of a proposed remedy. Applying ITRC and ASTM LNAPL principles supports each of the remedy recommendations which is explained in each remedy memo. A generalized comment of this nature is difficult to respond to when the CSM has been presented supporting the remedy recommendation. The focus should be on the validity and substance in support of what is proposed not why it may be different from a prior proposal made with less data than exists today. If there are specific issues of data interpretation or substance that need to be clarified please let us know.

Comment S7-15 - Attachment 4, Number 3, Remedy Recommendation, Page G4-2: *Section 3.2 is currently insufficient for evaluation because details regarding the targeted excavation are missing. Provide an expanded discussion of excavation delineation, and excavation criteria.*

Response – Specific information regarding the excavation design and extents will be included in

the remedy implementation work plan documentation; however, additional details have been added to Attachment 4.

Specific Memo Comments - #9 – AOI 83/84-1 Cutting Oil Area

Please note that four of the general comments for the Priority #9 memo were specific comments, so they are addressed here.

Comment G9-3 - *A summary is necessary of any historical data demonstrating that the plume at AOI 83/84-1 has stabilized and is not mobile. Required as well is a discussion of whether the historical data suffice to characterize the nature and extent of the plume at AOI 83/84-1. Effectiveness of the wells to monitor the plume should be discussed, based on proximities of the monitoring wells to the plume and to the sewer system (specifically Outfall 004), hydraulic gradients, and flow direction. Groundwater analytical data obtained at the Site should be compared to applicable screening values such as the Michigan Part 201 nonresidential criteria.*

Response – The rationale is provided in the memo demonstrating that the LNAPL area is not migrating. The AOI 83/84-1 LNAPL Area was recently identified; however, monitoring wells in the vicinity of the LNAPL Area have been monitored as part of ongoing RFI activities since 2001. Sitewide groundwater level data are presented in **Appendix X**. A conceptual site model of AOI 83/84-1 is presented as **Figure H-1** and a summary of the available data compared to applicable criteria is presented in **Attachment 1** of the memo.

Comment G9-4 - *A discussion is warranted assessing whether the recommended remedy is more effective, less costly, and can more adequately address risks in a timely manner than other remedial alternatives or combination of alternatives. Information obtained from the feasibility study and cost evaluations of this remedial alternative should be discussed.*

Response – This comment will be addressed by the addition of the PCEM, RTM and RCBM as tables to the main report.

Comment G9-5 - *Reasonable remedial timeframes and costs of the recommended alternative should be discussed, including definitions of the terms "reasonable timeframes" and "reasonable costs."*

Response – It is not clear what is sought regarding defining terms we do not use in the remedy proposal. As far as we know there is no measurable "reasonable timeline" or "reasonable costs" standard for all remedies. Rather we suggest that the length of remedial activities and cost is a site specific individual determination based on a valid site conceptual model. If there are specific schedule or cost issues please identify them. In the meantime the information we

relied on for remedial alternative analysis and recommendations is presented in the PCEM, RTM and RCBM tables to the main report.

Comment G9-7 - *The assessment of the proposed remedy should include an expanded discussion of vapor phase and a discussion of concerns regarding potential effects of volatilization to indoor air. Also included should be specific information about the existing site surface cap or coverage, and adequacy of this as an effective EC.*

Response – A discussion of vapor phase pathway is included in the main body of the report and in **Attachment 1** of the LNAPL Remedy Recommendation Memos. Existing surface cover is discussed in the Background section of **Attachment 2**.

Comment S9-1 - Attachment 1, Section 2.1, Geology and Hydrogeology, Page H1-2**:** *Results of Laser Induced Fluorescence (LIF) indicate LNAPL impacts as deep as 17 feet below ground surface (bgs), while the following section, Groundwater/LNAPL Levels, states that groundwater is generally at 7 to 8 feet bgs. The text should discuss historical fluctuations in groundwater elevations in relationship to measurements of free product, and whether different free product thicknesses could result from these groundwater fluctuations.*

Response – Historically the groundwater level fluctuated from 6 to 8 feet bgs in this portion of the Site. Groundwater level data are presented in **Appendix X**. LNAPL can be found deeper than the groundwater as evidenced by the LIF readings form LIF-83-006.

Comment S9-2 - Attachment 1, Section 2.1, Geology and Hydrogeology, Pages H1-2: *An abbreviated hydrogeology section should be added to this section to discuss pertinent site characteristics, such as hydraulic gradient, proximity to subsurface features (for example, Outfall 004), and preferential surface and subsurface flow features.*

Response – This comment will be addressed in the CSM cross-sectional figure, presented as **Figure H-1**. Information regarding regional and Site geology and hydrogeology can be found in the Site RFI Reports presented in **Appendix Y**.

Comment S9-3 - Attachment 1, Section 2.2, Groundwater and Soil Analytical Data, Page H1-2: *In addition to the monitoring wells listed in Table 1, indicate specific locations of monitoring wells that were sources of groundwater data used to assess AOI 83/84-1. The text should include details about any historical groundwater analytical results at AOI 83/84-1 that exceed Michigan Part 201 nonresidential criteria.*

Response – Locations which exceed (or do not exceed) criteria are presented on the CSM **Figure H-1**. Please note that all data tables are presented in **Appendix X.**

Comment S9-4 - Attachment 1, Section 2.2, Groundwater and Soil Analytical Data, Soil Bullet, Page H1-2: *The text should include an expanded discussion of the phenanthrene detected at concentrations exceeding groundwater surface water interface (GSI) protection criteria. Specifically, Table 2 should also list analytical data from both the soil samples and water samples collected at Outfall 004.*

Response – Phenanthrene exceedances of GSIP were not collected from Outfall 004. The samples with the GSIP exceedances were collected from AOI 83/84-1. However, the GSI compliance point for a storm sewer is at the discharge point, which is located over a 1,000 feet east of AOI 83/84-1 (see **Figure 4 of the main report**). Analyses of the NPMP samples collected from the Outfall 004 monitoring point do not exceed criteria; therefore, the Site is in compliance.. GSI is monitored by the NPMP program which is discussed in **Appendix BB**. **Figures 5 and 6 of the main report** show the site drainage areas, storm sewers, discharge points and bulkhead locations. All data tables are presented in **Appendix X**.

Comment S9-5 - Attachment 1, Section 2.3, LNAPL Characteristics, Natural Source Zone Depletion, Page H1-3: *If applicable, provide and use data from the Southend Natural Source Zone Depletion (NSZD) study to extrapolate or estimate degradation rates and methane production rates within this AOI.*

Response – Not applicable.

Comment S9-6 - Attachment 1, Section 2.4, Extent of LNAPL, Page H1-3: *Discuss how the footprint of the LNAPL plume was estimated for AOI 83/84-1, specifically regarding how the plume extent was refined with LIF data. Additionally, discuss the LIF data in terms of vertical range of impact, and provide LIF boring logs. As an example, the response reading from LIF-83-006 is depicted above 200 percent reference emitter (%RE), yet the corresponding borehole log for SB83/84-14 does not indicate any staining. Well screen depths and potential for future transmissivity testing should be discussed as means of more accurately measuring/estimating thickness of the LNAPL plume.*

Response – As discussed in Section 2.1.1 of the Report LIF responses above background are indicative of the presence of LNAPL in the subsurface, but the magnitude of the response is not representative of mobile LNAPL. The magnitude of the LIF response is related to the soil type, LNAPL type (mainly the fraction of polycyclic aromatic hydrocarbons [PAHs]), and the LNAPL pore saturation. The residual LNAPL saturation of a soil is directly related to soil structure, LNAPL physical properties, and the maximum historical LNAPL saturation, which are spatially variable at an environmental site.

Section 2.1.3 of the Report presents the method for estimating the extent of LNAPL. LIF boring logs are presented in the CMI Annual reports included in **Appendix Y**. Furthermore transmissivity

testing is not applicable to determining LNAPL thickness. See ASTM E2856-12.

Comment S9-7 - Table 1: *Information listed in the table indicates that Site wells were gauged in 2013 only. Provide or summarize historical monitoring and available free product data for the former Factory 83/84 Area to support a claim of plume stability over time. See General Comment 3.*

Response – The monitoring wells at the AOI 83/84-1 LNAPL Area were installed in 2013; therefore, only 2013 data is available. Please note that Site-wide groundwater monitoring data are presented in **Appendix X** of the Report.

Comment S9-8 - Table 1: *MW-83/84-15 is the only monitoring well within the AOI 83/84-1 plume. No information appears regarding MW-83/84-15 during November 2013. It is unclear whether these data were not obtained or were inadvertently omitted.*

Response – MW-83/84-15 was not gauged in November 2013. Groundwater level data are presented in **Appendix X**.

Comment S9-9 - Table 2: *Verify concentration units and present site-specific screening criteria. Distinguishing detected values from non-detected values (e.g., via highlighting or shading) would facilitate the reader's comprehension of the Site.*

Response – The concentration units have been confirmed to be correct; however, there are no criteria for LNAPL. Locations of soil and/or groundwater which exceed (or do not exceed) applicable criteria are presented on the CSM **Figure H-1**. Please note that all data tables have been moved to **Appendix X**.

Comment S9-10 - Figure 2: *Delineate or label the following items relevant to evaluation of recommendations regarding the Site: storm sewers (specifically Outfalls 004 and 013) and other underground utility locations, well locations, groundwater contours, surface cap locations, and public right-of-ways. Include all applicable items in the legend.*

Response – **Figures 2 and 3 of the main report** show AOIs and LNAPL Extents. **Figures 5 and 6 of the main report** show the site drainage areas, storm sewers, and bulkhead locations. **Figure H1-2** will be updated with a groundwater flow direction arrow. Locations which exceed (or do not exceed) criteria are presented on the CSM **Figure H-1**. The CSM cross-section figure also details much of the requested information.

Comment S9-11 - Figure 2: *See Specific Comment 6 above regarding LIF data and boring logs. Present data from all 12 LIF borings regarding vertical range of impact.*

Response – The LIF logs are presented in the Annual CMI reports which are presented in

Appendix Y.

Comment S9-12 - Attachment 2 Notes, Geology and Hydrogeology, Page H2-2: *See Specific Comment 2 above regarding addition of an abbreviated hydrogeology section (Section 2.1, page H1-2, Geology and Hydrogeology), and include information relevant to Attachment 2.*

Response – This comment will be addressed in the CSM cross-sectional figure, presented as **Figure H-1**. Information regarding regional and Site geology and hydrogeology can be found in the Site RFI Reports presented in **Appendix Y**.

Comment S9-13 - Attachment 2 Notes, LNAPL Characteristics, Page H2-2: *This section notes that based on LIF borings, LNAPL impacts range from 5 to 17 feet bgs within AOI 83/84-1; however, Section 2.3, page H1-3, LIF Data, as well as Section 2.4, Extent of LNAPL, note that vertical range of LIF impacts is 6 to 17 feet bgs. Clarify the vertical range of impacts, and discuss use of LIF data to determine the extent of LNAPL within this AOI.*

Response – Data corrected in **Attachment 2** to read 6 to 17 feet bgs. Section 2.1.3 of the Report presents the method for estimating the extent of LNAPL.

Comment S9-14 - Attachment 2 Notes, Number 1, Page H2-2: *Future site construction associated with re-routing and bulkheading Outfall 004, as well as active utility repairs in the area of AOI 83/84-1, may involve short-term site worker exposure scenarios. Address this concern and discuss whether methane explosive hazards and air monitoring requirements have been evaluated.*

Response – These issues are addressed by the institutional controls presented in the main report.

Comment S9-15 - Attachment 2 Notes, Number 2, Page H2-2: *Feasibilities of the various remediation strategies that would result in compositional change within AOI 83/84-1 should be evaluated based on re-routing and bulkheading of Outfall 004, which would eliminate the GSI pathway.*

Response – Once the re-route is completed the risks for the AOI 83/84-1 plume will have been addressed, which negates the need for instituting compositional change remedies. The remedial objective is to eliminate migration in the sewer to the Flint River, not to simply remove LNAPL within the stable perimeter. In addition the bulkheaded storm sewer is planned to be used as a passive recovery trench which could be compromised by instituting compositional change remedies.

Comment S9-16 - Attachment 2 Notes, Number 4, Page H2-2: *See General Comment 3. Assess the mobility of LNAPL in the vicinity of Outfall 004 considering the stability of the plume within 83/84-1.*

Response – The Outfall 004 storm sewer intersects the LNAPL area as shown on the CSM;

therefore, this is not an indication of LNAPL migration outside of the stable perimeter, but rather a preferential pathway of mobile LNAPL within the stable perimeter. The AOI 83/84-1 LNAPL Area was recently identified; however, monitoring wells in the vicinity of the LNAPL Area have been monitored as part of ongoing RFI activities since 2001. Sitewide groundwater level data are presented in **Appendix X**. A conceptual site model of AOI 83/84-1 is presented as **Figure H-1** and a summary of the available data compared to applicable criteria is presented in **Attachment 1** of the memo.

Comment S9-17 - Attachment 2 Notes, Number 4, Bullet 1, Page H2-2: *Provide or reference the well designations (numbers) and locations of wells (with reference to Figure 2) that support this conclusion.*

Response – See **Figures 2 and 5 of the main report** for downgradient wells.

Comment S9-18 - Attachment 2 Notes, Number 6, Page H2-3: *No transmissivity data conclusively support the conclusion that LNAPL is not readily recoverable from AOI 83/84-1. Additional soil boring and monitoring well data would allow further evaluation of this alternative.*

Response – That is correct. Transmissivity testing was not able to be completed at MW-83/84-30. A second monitoring well will be installed in this area.

Comment S9-19 - Attachment 2 Notes, Number 7, Page H2-3: *This section requires additional supporting information regarding each IC or EC. Additional information about the method for establishing each IC or EC should appear in Attachment 3, Section 3.2.*

Response – Institutional controls are discussed in more detail in the main report. The location of the Engineering controls will be included on a figure included in Attachment 3. Additional information will be discussed in further detail in work plans and/or basis of design documents. Also, an example deed restriction is presented in **Appendix Z**.

Comment S9-20 - Attachment 2 Notes, Number 7, Bullet 1, Page H2-3: *The text states that prohibiting use of groundwater for any use other than sampling, investigatory, remediation, or short-term dewatering purposes is proposed as part of the ICs and ECs for this AOI. Short-term dewatering, if conducted without appropriate collection systems, may spread hazardous constituents to areas outside of the current LNAPL plume. Inclusion of short-term dewatering with remediation is recommended only if appropriate collection systems are in place or are to be constructed. This comment also applies to Attachment 3, Section 3.2, Institutional Controls, Page H3-2, Bullet 1.*

Response – Standard practice in Michigan requires all such activities be performed in compliance with applicable laws, rules and regulations.

Comment S9-21 - Attachment 2 Notes, Number 7, Bullets 3 and 4, Page H2-3**:** *The text states that excavation or other intrusive activities should be prohibited unless appropriate health and safety measures are implemented. Address site worker exposure concerns and discuss whether methane explosive hazards and air monitoring requirements have been evaluated in Attachment 3, Section 3.2.*

Response –The Report will include language that future owners will conduct evaluations and address methane and vapor intrusion as necessary. Standard practice in Michigan requires all such activities be performed in compliance with applicable laws, rules and regulations

Comment S9-22 - Attachment 3, Section 3.1, Outfall 004 Infiltration Pathway Elimination, Page H3-2: *This section should include information obtained from the feasibility study and costs associated with this option. The section should also be revised to describe a comprehensive remedial approach identifying appropriate remedial objectives, delineating site conditions, identifying data gaps, and addressing challenges to remediation associated with site worker exposure and right-of-way and public access if applicable. Also discussed should be considerations regarding long-term monitoring associated with this remedy.*

Response – Feasibility and cost information are presented in the RTM, PCEM, and RCBM. Information regarding the remedy implementation will be provided in the basis of design documentation.

Comment S9-23 - Attachment 3, Section 3.1, Institutional controls, Page H3-2**:** *See General Comments 1 and 8 above pertaining to monitoring effectiveness of ICs and provision of data to support placement of ECs. Provide additional supporting information for each IC or EC, including the method for establishing these controls.*

Response –Please see responses to comments G9-1 and G9-8. Also an example of a restrictive covenant is presented in **Appendix Z**.

This comment will be addressed by the addition of the RTM and ICM as tables to the main report. The RTM will summarize the technologies evaluated for each AOI, the approximate time frame to complete the remedy, OMM activities, and the rationale for selecting or eliminating the technology. The ICM will provide a summary of the Site-wide institutional controls to be implemented.

OMM activities associated with the selected remedies will be included in the design or work plan documentation. Documentation will also include details regarding how the effectiveness of remedies will be monitored; frequency of monitoring; what items would trigger re-evaluation, repair or replacement of the remedy; as well as the time frame and end points of monitoring.

Specific Memo Comments - #11 – AOI 40-A, B & 16-C Fuel Oil LNAPL Areas

Comment S11-1 – Attachment 1, Section 1, Background, Page J1-1: *The text states that underground storage tanks (UST) are presumably the source of plumes identified in this AOI. A summary of the contents, sizes, locations, and years of service of USTs historically present within this AOI should be presented.*

> Response – The size and contents of the tanks were added to the background section and the approximate locations of the USTs were added to **Figure J1-2** of Attachment 1. The reader is referred to the Current Conditions Report – South of Leith Street presented in **Appendix Y** for additional information

Comment S11-2 – Attachment 1, Section 3.1, Geology and Hydrogeology, Page J1-2: *An abbreviated hydrogeology section should be added here discussing pertinent site characteristics, such as groundwater flow direction, hydraulic gradients, proximity to subsurface features (such as storm sewers), and preferential surface and subsurface flow features.*

> Response – This comment will be addressed in the CSM cross-sectional figure, presented as **Figure J-1**. Information regarding regional and Site geology and hydrogeology can be found in the Site RFI Reports presented in **Appendix Y**.

Comment S11-3 - Attachment 1, Section 3.2, Groundwater and Soil Analytical Data, Groundwater Analytical Data, Page J1-2: *This Section provides discussion of groundwater concentrations detected above applicable remediation objectives. However, only benzene, ethylbenzene, arsenic, beryllium, and cyanide are listed as exceeding groundwater-surface water interface (GSI) criteria. Attachment 2, Item 1 states that isopropylbenzene, xylene, and copper were also detected in groundwater samples at concentrations exceeding GSI criteria. Revise Attachments 1 and 2 to render information consistent. In addition, a brief discussion of historically present concentrations of semivolatile organic compounds (SVOC) and polychlorinated biphenyls (PCB) (or lack thereof) should also be included.*

> Response – The text in Attachments 1 and/or 2 will be corrected. Only exceedances of applicable criteria are discussed in the text. Please refer to **Appendix X** for data summary tables.

Comment S11-4 - Attachment 1, Section 3.2, Groundwater and Soil Analytical Data, Groundwater Analytical Data, Page J1-2: *The text states that only benzene and arsenic were detected in LNAPL samples from this AOI, and that the other exceedances may be related to other site impacts or releases. Although it is understood that LNAPL is the focus of this evaluation, dissolved phase risks that are present and not related to LNAPL will still require corrective measures in order to achieve an NFA for this AOI.*

Response – All of the groundwater exceedances discussed in this section exceed GSI criteria. The GSI storm sewer pathway is addressed in this memo. In addition, the potential direct groundwater discharge pathway from AOI 40-A, -B, &16-C to the Flint River will be addressed in **Appendix BB**.

Comment S11-5 - Attachment 1, Section 3.3, LNAPL Characteristics, LNAPL Analytical Data, Page J1-3: *The text states that benzene, arsenic, and lead were detected at concentrations potentially characteristically hazardous. The following items should be clarified: (1) concentrations detected, (2) extent of impacts related to detections, and (3) whether any evaluation related to risks posed by those constituents occurred.*

Response – The proposed remedy is targeted excavation; therefore waste characterization analysis will be completed to ensure that the waste is properly disposed of. Also, as discussed in our March 6, 2014 meeting the text in this section has been changed to '*Concentrations of arsenic and lead exceed TCLP criteria at RFI-16-10; however, TCLP analysis has not been conducted*'. Analytical data are presented in **Appendix X**.

Comment S11-6 - Attachment 1, Section 3.3, LNAPL Characteristics, Transmissivity, Page J1-3: *The text states that LNAPL transmissivity values were determined from results of four quarters of LNAPL baildown tests. If these baildown test data have not yet been presented, the data should be included for review.*

Response – The transmissivity results were previously presented in the 2012 CMI Report (included in **Appendix Y**). Also the transmissivity data are summarized in Table 2 of the main report.

Comment S11-7 - Attachment 1, Section 3.3, LNAPL Characteristics, Natural Source Zone Depletion, Page J1-4: *The text states that a Natural Source Zone Depletion (NSZD) study was conducted in this AOI. If the NSZD study data have not yet been presented, the data should be included for review.*

Response – The NSZD data are presented in **Tables 3A and 3B of the main report** and a summary memo is included in **Appendix Y**.

Comment S11-8 - Attachment 1, Table 2: *Elevated detection limits (greater than applicable comparison criteria) are shown for samples RFI-40-03 and RFI-40-09. A brief discussion of whether the analytical data presented resulted from sample dilution should be included somewhere in the document. In addition, notes for all acronyms used in this table should be included.*

Response – The elevated detection limits are due to matrix interference. A list of all acronyms used in the data tables will be included in **Appendix X** of the Report.

Comment S11-9 - Attachment 1, Figure 2: *The figure appears to inaccurately estimate the horizontal extent of LNAPL present at this AOI. For example, LIF-40-006 is shown on the figure as >200 percent response but is not included in the current LNAPL plume extent. Clarification on use of LIF data to determine LNAPL extent at this AOI is required. A subsequent revision to Figure 2 may be required.*

> Response – The extent of LNAPL is correct on Figure 2. A high LIF response does not indicate the presence of measurable LNAPL. An LIF response indicates the presence of NAPL impact, which may be residual NAPL or measurable LNAPL. Section 2.1.3 of the Report presents the method for estimating the extent of LNAPL.

Comment S11-10 - Attachment 1, Figure 3: *The document indicates that benzene was identified in groundwater samples exceeding GSI criteria. However, an associated benzene plume is not shown on this figure. Moreover, the three small inorganics plumes shown on the north end of the AOI are not accompanied on the figure by sample results at locations between each plume. Revise the figure to present extent of benzene plume and re-evaluate extent of inorganics plumes.*

> Response – Plumes identifying VOC and SVOC exceedances of GSI criteria were added to **Figure J1-3**. The three small organic plumes are separate because they exceed for different constituents (40-3 – arsenic and cyanide, 40-4 –arsenic and silver [no cyanide detected] and 40-6 – cyanide only). The analytical data are presented in **Appendix X**.

Comment S11-11 - Attachment 1, Figures 2 and 3: *Delineate or label the following items relevant to evaluation of recommendations regarding the Site: storm sewer and other underground utility locations, locations of sentinel wells (as referenced in the text), groundwater contours, upgradient and crossgradient source areas (AOIs) if any, final Outfall location associated with this AOI, and surface cap location.*

> Response – **Figures 2 and 3 of the main report** show AOIs and LNAPL Extents. **Figures 5 and 6 of the main report** show the site drainage areas, storm sewers, and bulkhead locations. **Figures 7 and 8 of the main report** show the known utilities. **Figure J1-2** will be updated with a groundwater flow direction arrow. Locations which exceed (or do not exceed) criteria are presented on the CSM, **Figure J-1**.

Comment S11-12 - Attachment 2 Notes, Item 9) Are Controls Required?, Page J2-3, Bullet 1: *The text states that prohibiting use of groundwater for purposes other than sampling, investigation, remediation, or short-term dewatering is proposed as part of the ICs and engineering controls for this AOI. Short-term dewatering without appropriate collection systems may spread hazardous constituents to areas outside of the current LNAPL plume. Inclusion of short-term dewatering with remediation is recommended only if appropriate collection systems are in place or are to be constructed. This comment also applies to*

Attachment 3 Section 3.2, Institutional Controls, Page J3-2, Bullet 1.

Response – Standard practice in Michigan requires all such activities be performed in compliance with applicable laws, rules and regulations.

Comment S11-13 - Attachment 2 Notes, Item 9) Are Controls Required?, Page J2-3, Bullet 3: *The text states that prohibiting excavation to protect the integrity of the barrier is proposed as part of the ICs and engineering controls for this AOI. Barriers intended to be part of ICs and engineering controls must be designated and identified as part of long-term stewardship and monitoring. Existing integrity of proposed barriers and applicable methods for evaluating the integrity will be required as part of long-term monitoring. This comment also applies to Attachment 3 Section 3.2, Institutional Controls, Page J3-2, Bullet 3.*

Response – A monitoring plan will be developed as part of the Remedy Implementation Work Plan documentation. Standard practice in Michigan requires all such activities be performed in compliance with applicable laws, rules and regulations.

Comment S11-14 - Attachment 3, Section 3.1, Bulkhead Installation, Page J3-2: *Although performing bulkhead installation will reduce LNAPL migration to the Flint River via Outfalls, it is not clear if the groundwater-surface water interaction of groundwater that does not migrate via Outfalls has been investigated or documented. Required are a brief discussion and reference to existing information that demonstrates lack of risk from a dissolved phase discharge to the Flint River.*

Response – Acknowledged. Further evaluation of the GSI monitoring data suggest that the groundwater between AOI 40-A, -B & 16-C and the Flint River requires further assessment and will be addressed as part of the Storm Sewer GSI Strategy discussed in **Appendix BB**.

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MEMO

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From:
Micki M. Maki

Date:
August 19, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
Group 3 - Response to USEPA Comments on Priority #1 – AOI 86-1 Fuel Oil LNAPL Area, Priority #4 – AOIs 12-A, B & C Hydraulic Oil LNAPL Areas, AOI 38-1 Soil Impact Area, AOI 83/84-2 Soil Impact Area, Waste Management Unit #3, Waste Management Unit #7, and Waste Management Unit #10 Evaluation and Remedy Recommendation Memos
Buick City Site, Flint, Michigan

This memo provides responses to the comments received from USEPA on March 17, 2014 on Priority #1 – AOI 86-1 Fuel Oil LNAPL Area, Priority #4 – AOIs 12-A, B & C Hydraulic Oil LNAPL Areas, AOI 38-1 Soil Impact Area, AOI 83/84-2 Soil Impact Area, and Waste Management Unit (WMU) #3, WMU #7, and WMU #10 Evaluation and Remedy Recommendation Memos (Memos).

Comments - #1 – AOI 86-1 Fuel Oil LNAPL Area

Comment G1-1 - *The evaluation and presentation of migration pathways in the areas of Outfalls 004 and 005 are mentioned only in a few sentences and do not fully demonstrate that future potential migration at Outfall 005 sewer has been assessed. Although the recommended remedy addresses Outfall 004 specifically, no additional information discusses potential impacts from the implementation of that remedy. The text should address these issues to aid in the evaluation of the recommended remedy, and should reference each area historically identified at AOI 86-1. The text should clarify if the two outfalls (i.e., Outfalls 004 and 005) are impacted from releases associated with this AOI, and if the newly re-routed Outfall and the existing 005 Outfall will be monitored for potential future impacts.*

In addition, the relocation route of Outfall 004 should be presented and should be specifically identified prior to remedy selection. General monitoring locations of Groundwater Surface Water Interface (GSI) exceedances should be noted because these locations are known.

Response : Additional information will be added to Attachments 1 and 4 to discuss further discuss Outfall 005. In addition the language in Attachment 4 will be revised to clarify the proposed remedy for AOI 86-1. There is no relocation proposed at AOI 86-1. The Outfall 004 reroute is being completed on the opposite side of the Site, approximately 1,500 feet from AOI 86-1. Following the completion of the Outfall 004 reroute the remaining portion of the Outfall 004 storm sewer which passes through AOI 86-1 will then be bulkheaded to eliminate the pathway. A figure will also be added to the memo to show the location of the planned re-route and bulkhead activities.

Operations, monitoring and maintenance of the remedies will be discussed in the remedy design documents/work plans.

Locations which exceed (or do not exceed) criteria are presented on the conceptual site model (CSM) **Figure A-1**.

Comments G1-2 - *The text should discuss specific and relevant information concerning potential for impacted soils to act as a continuing source of groundwater contamination, such as the polychlorinated biphenyls (PCB) impacted soil remaining in place and soils possibly saturated with free product and fuel. Institutional controls (IC) and engineering controls (EC) are presented and discussed as these relate to future site conditions, but no conclusions appear pertaining to areas impacted from sewer relocation. Specifically defining potential for future source migration and product reformation would provide a basis for selecting and estimating costs of a recommended approach to remediating the site in the Corrective Measures Implementation CMI Work Plan phase.*

Response: EPA to provide additional guidance on this comment.

Comments G1-3 - *The text should include a brief summary of the general purpose and objective of storm sewer relocation, investigation derived waste (IDW) management if required, and site restoration and monitoring activities following removal. Additionally, effects on the recommended remedy by the PCB-impacted soil and contaminated groundwater should be discussed.*

Response: The language in Attachment 4 will be revised to clarify the proposed remedy for AOI 86-1. There are no relocation activities proposed at AOI 86-1. The Outfall 004 reroute is being

completed on the opposite side of the Site, approximately 1,500 feet from AOI 86-1. Following the completion of the Outfall 004 reroute the remaining portion of the Outfall 004 storm sewer which passes through AOI 86-1 will then be bulkheaded to eliminate the pathway. Additional details and specification site restoration and monitoring activities will be provided in subsequent AOI 86-1 remedy design documents/work plans.

Comment G1-4 - *This document includes no discussion or description of impacts from AOI 86-1 on the CSX property, or potential for presence of complete off-site exposure pathways and receptors.*

Response: The potential off-site pathway associated with groundwater GSI impact is discussed in the memo and shown on **Figure A1-2**. Regarding LNAPL impacts, additional delineation is planned to determine whether the LNAPL impacts extend off-Site to CSX property prior to remedy implementation. Additional text will be added to Attachment 4 to clarify this point.

Comments G1-5 - *The text generally does not match the historical sizes and contents of the underground storage tanks (UST) discussed in Table 5-11, RCRA Facility Investigation (RFI) Report Phase I (Blasland, Bouck & Lee, Inc. [BBL] 2002). Clarify these discrepancies and, where historical contaminant or free product data are cited, discuss relationships of monitoring well locations to those UST locations.*

Response: There appears to have been a typo on the Table 5-11. According to all other Site documentation all of the USTs were 12,000 gallons. Please refer to the CSM Figure A-1 for the approximate location of former USTs and monitoring well locations.

Comment S1-1 – Attachment 1, Section 1, Background, first and second paragraphs, page A1-1: *This section discusses USTs that were present within this AOI. The text implies that the five USTs were removed, and that historical releases from them are the source of the groundwater plume at AOI 86-1 despite identification of impacts upgradient of the current plume area. Also, a summary of uses and contents of the USTs, and locations of piping, the pump basin, and the nearby catch basin associated with the UST area should appear. Various locations of free product and soil and groundwater impacts should also be discussed relevant to the location of the proposed remedy. If relevant historical information is available in previous site reports, locations and types of data presented therein should be referenced.*

Response: A list of the UST contents and a reference to previous site reports was included in Attachment 1. Please refer to the CSM **Figure A-1** for the approximate location of former USTs monitoring wells and soil/groundwater impacts.

Comment S1-2 – Attachment 1, Section 2.1, Former Interim Measures, Recovery Wells, page A1-2: *Provide the volumes of light non-aqueous phase liquid (LNAPL) recovered from the two free product recovery wells referenced in this section (if available), in addition to locations and designation numbers of the wells. Additionally, indicate which wells yielded free product from years 2003 to 2005. Although historical conclusions concerning overall effectiveness of the recovery efforts appear in this section, the text does not include determinations of potential for future migration, and this information should be added.*

Response: Available documentation does not include any information regarding volumes recovered or recovery well designation numbers. The approximate locations of the recovery wells are shown on the CSM cross section, **Figure A-1**. There is no additional information available regarding the free product recovery wells. The 2003-2005 LNAPL recovery information is presented in **Appendix X**.

As discussed in Attachment 2 of the memo, based on available Site information the LNAPL at AOI 86-1 is mobile in the vicinity of the Outfall 004 storm sewer, but is not migrating.

Comment S1-3 – Attachment 1, Section 3.2, Groundwater and Soil Analytical Data, page A1-3: *Use of the term "several" should be quantified, as the numbers relate to the 24 locations sampled.*

Response – The language in Section 3.2 has been modified to present additional detail. In addition please refer to the CSM Figure A-1 which presents a summary of the sample locations where impacts were identified.

Comment S1-4 - Attachment 1, Section 3.3, Groundwater and Soil Analytical Data, page A1-4: *A general statement should appear regarding the importance and relevance to LNAPL characteristics of the highest laser-induced fluorescence (LIF) responses at LIF 86-004 (at 13.5 to 18 and at 28.9 to 34.5 feet below ground surface). The areal depiction of historical LNAPL does not include areas directly west of the dissolved plume where historical observations of free product and where high LIF responses occurred. The text does not include determinations concerning whether historical presence of free product in wells, such as those depicted northwest of the plume area, are related to the plume area.*

Response: The high LIF response at LIF-86-004 does not indicate the presence of measurable LNAPL. No LNAPL has been measured at monitoring well 87-FP5 which is immediately adjacent to LIF-86-004; therefore, there is no historical LNAPL extent shown on the figure.

LNAPL was detected in one temporary well installed to investigate a former elevator located northwest of AOI 86-1. However, LNAPL was not detected in the permanent well (RFI-85-02/02R) installed at the same location. In addition the LIF boring completed at this location indicated no response. This information is presented in Attachment 1.

Comment S1-5 - Attachment 2 Notes, LNAPL Characteristics, page A2-2: *A discussion should appear regarding areal relationships of historical free product within the areas upgradient and west of the free product and dissolved plume areas. Areas where LIF response was high and areas between other historical free product wells also require discussion.*

Response: The available information is presented in Attachment 1 and on **Figure A1-2**.

Comment S1-6 – Attachment 2 Notes, LNAPL Characteristics, page A2-2: *Provide details about specific impacts from the soil and the dissolved groundwater plume that could affect implementation of the recommended remedy.*

Response: Currently there are no specific impacts that are expected to affect implementation of the remedy. In the event that any concerns are identified they will be addressed in the remedy design documents/work plans.

Comment S1-7 – Attachment 3, 760.1 Risk Based Cleanup and Disposal Request, page A3 1: *Provide a discussion regarding effect(s) of excavation and Outfall 004 relocation activities on the recommended remedy and the associated engineering controls and institutional controls for the areas of contamination.*

Response: There are no relocation activities planned at AOI 86-1. The Outfall 004 reroute is being completed on the opposite side of the Site, approximately 1,500 feet from AOI 86-1. Following the completion of the Outfall 004 reroute the remaining portion of the Outfall 004 storm sewer which passes through AOI 86-1 will then be bulkheaded to eliminate the pathway. A figure will also be added to the memo to show the location of the planned re-route and bulkhead activities.

Comment S1-8 – Figure 1, PCB Concentrations in LNAPL and Extent of Low Occupancy Restrictions: *Figure 1 should depict approximate areas within low occupancy, restricted areas in AOI 86-1 where relocation activities will occur.*

Response: – There are no relocation activities planned at AOI 86-1. The Outfall 004 reroute is being completed on the opposite side of the Site, approximately 1,500 feet from AOI 86-1. Following the completion of the Outfall 004 reroute the remaining portion of the Outfall 004 storm

sewer which passes through AOI 86-1 will then be bulkheaded to eliminate the pathway. A figure will also be added to the memo to show the location of the planned re-route and bulkhead activities. The proposed area restricted to low occupancy is included on **Figure A3-1**.

Comment S1-9 – Attachment 4, Remedy Recommended Rationale, second bullet, page A4 1: *The bulleted information indicating that the free product system was discontinued in 2002 contradicts previous text stating that this occurred in 2001.*

Response – This information will be corrected.

Comments - #4 – AOIs 12-A, B & C Hydraulic Oil LNAPL Areas

Comment S4-1 - Attachment 1, Section 2.4, Extent of LNAPL, Page C1-4: *The memorandum presents estimated areas of light non-aqueous phase liquid (LNAPL) based on historical data. Aside from historical measurements of LNAPL thickness exceeding 0.5 foot, it is unclear how this estimate was derived. Specifically, it is unclear how results of Laser Induced Fluorescence (LIF) were incorporated into this estimate and eventual depictions of estimated LNAPL plumes shown on Figure 2. The text should reference or discuss relationships of LIF results to LNAPL plume delineation. Revisions to estimated LNAPL plume areas and associated figures may be required.*

Response – Please refer to Section 2.1.3 (LNAPL Extent Evaluation) of the main report for additional information on how the LNAPL extents were determined.

Comment S4-2 - Attachment 2 Notes, Item 3) Is there a potential benefit to partial treatment/removal that outweighs costs?, Page C2-3: *The memorandum states that LNAPL mobility into Outfall 004 will be addressed by re-routing the flow to Outfall 013 and bulkheading Outfall 004. The eventual fate of LNAPL present within this AOI (area of interest) is unclear. Also unclear is how flow associated with this AOI will potentially impact Outfall 013. The memorandum should be revised to discuss the fate of LNAPL present after bulkheading has been completed and any potential impacts on Outfall 013 as a result of re-routing flow. This comment also applies to additional references throughout the memorandum that discuss Outfall 004 bulkheading and re-routing.*

Response – The following information will be added to the memo to provide additional clarification.

- Outfall 004 will be rerouted prior to encountering the LNAPL impacts; therefore, there will not be any impacts to Outfall 013.

- Following the completion of the reroute, the abandoned section of the Outfall 004 storm sewer will be used as a passive recovery trench. The 004 recovery trench will then be monitored for LNAPL accumulation and LNAPL removal activities will be conducted as necessary.

- A figure showing the location of the proposed Outfall 004 re-route and bulkhead locations.

Comments - AOI 38-1 Soil Investigation Area

Comment S38-1-1 - Attachment 1, History of Northern Parcel, Page 2/12: *The document indicates that an 8,000-gallon underground storage tank (UST) may have been present at the northern end of Building 38, and closure documents indicate former presence of three additional USTs within the area of interest (AOI). The documented and suspected locations of all USTs and associated investigative soil borings should be shown on Figure 2. The text should also indicate (if possible) whether the USTs were removed or abandoned in place, and what type of investigation methodologies were used to try and locate the 8,000-gallon UST (such as, test pits, ground-penetrating radar).*

Response - Regarding the 8,000 gallon UST – The 2001 Description of Current Conditions Report for the Northend of the Site indicates that the tank was 'Not Used' on a historic Site Drawing. The report also indicated that the tank was removed, but closure documentation was not available.

Regarding the three USTs – The USTs were removed in 1988. The investigation and removal of the USTs are documented in the following reports, which are presented as appendices to the Current Conditions Report – North of Leith Street.

- 1997 Summary Report Building 38- Tank 001/38 by Global Environmental Engineering, Inc.,
- 1997 Closure Report Tank 002/38 by Global Environmental Engineering, Inc., and
- 1997 Summary Report Building 38- Tank 123/38 by Global Environmental Engineering, Inc.

This additional information along with the approximate locations of the former USTs will be included in the memo.

Comments - AOI 83/84-2 Soil Impact Area

As discussed below the soil and LNAPL remedies for AOI 83/84-2 will be combined and presented in **Appendix F**.

Comments G83/84-2-1 - *The recommended remedy for AOI 83/84-2 presented in the Soil Investigation Summary and Remedy Selection should be developed in conjunction with the recommended remedies associated with the Cutting Oil Plume at AOI 83/84-2 because the two areas significantly overlap. Specifically, the targeted polychlorinated biphenyls (PCB) -contaminated soil excavation area is common to both. The recommendation is to incorporate this portion of AOI 83/84-2 into AOI 83/84-2 Cutting Oil Plume because Appendix G recommends identical approaches for institutional controls (IC). This would allow for optimization of remedy recommendations and a streamlined review process.*

> Response: The soil and LNAPL remedies for AOI 83/84-2 will be combined and presented in **Appendix F**. The comments provided below will be incorporated the **Appendix F** remedy recommendation.

Comment G83/84-2-2 - *The text should include or reference analytical results at AOI 83/84-2 that exceed screening criteria, specifically including arsenic, lead, manganese, and phenanthrene. The text should also provide the specific screening level criteria where applicable. No conclusions or determinations are included concerning the presence of chromium in soil, although soil exceedances for chromium are discussed generally in the RCRA Facility Investigation (RFI) Phase I and Phase II reports (Blasland, Bouck & Lee, Inc. [BBL] 2002, BBL 2006) and in the RCRA Revised Corrective Action Measures Proposal, Addendum No.2 – Northend Corrective Measures and Site-wide Groundwater Monitoring (Arcadis 2010).*

> Response: The text in **Attachment 1** will be edited to include a more detailed discussion of criteria and exceedances. Locations which exceed criteria are shown on the CSM **Figures F-1 and F-2**. Pertinent data are provided in data tables presented in **Appendix X**. The chromium impacts will be addressed in the **Appendix F** remedy recommendation.

Comment S83/84-2-1 – Section 2, Soil Data Summary, page S2: *Section 2 states that soil exceedances for arsenic, lead, manganese, and phenanthrene are thought to be associated with the light non-aqueous phase liquid (LNAPL) at AOI 83/84-2, which is discussed in Appendix G (Arcadis 2013). Provide the pertinent investigation data that are referenced as an attachment to the memorandum, as well as a*

detailed discussion of the rationale for excluding arsenic, lead, manganese, and phenanthrene from the remedy recommendation. Include a summary of soil exceedances with a figure that depicts locations, concentrations, and depths of contamination. Refer to General Comment #2.

Response: A discussion of the arsenic, lead, manganese and phenanthrene exceedances are discussed in **Appendix F**. The **Attachment 1** text will be edited to include a more detailed discussion of criteria and exceedances. Locations which exceed criteria are shown on the CSM **Figures F-1 and F-2**. Pertinent data are provided in data tables presented in **Appendix X**.

Comment S83/84-2-2 – Section 3, Remedy Recommendation Rationale, bullets 1 & 2, page S2: *Refer to Specific Comment #1*.

Response: The soil and LNAPL remedies for AOI 83/84-2 will be combined and presented in **Appendix F**. The comments provided below will be incorporated the **Appendix F** remedy recommendation.

Comment S83/84-2-3 - Section 4.1, Engineering Controls, page S3: *Provide details about the current surface cover within the impacted area, as well as any details regarding subsurface infrastructure or obstructions (i.e., utilities and a vault) that may affect the recommended remedy during targeted PCB-contaminated soil excavation activities. Additionally, discuss the areal extent of the surface cover and its relationship to the cutting oil plume, PCB-contaminated soil, and other impacted soil, as well as maintenance requirements and stormwater controls in place within the impacted area.*

Response: Additional information was included in the memo regarding the surface cover, infrastructure and extents of remedies. The existing surface cover is the former Factory 83/84 slab. The extents of the slab in the vicinity of AOI 83/84-2 are shown on the memo figures and the extent of the former building is shown in its entirety on **Figures 2 and 5 of the main report**. Maintenance requirements of the surface cover will be discussed in the remedy design documents/work plans. Storm sewers in the AOI 83/84-2 area have been bulkheaded.

Comment S83/84-2-4 - Section 4.2, Institutional Controls, Bullet #2, page S3: *Provide a discussion regarding the effect of targeted excavation activities on the recommended ICs for the impacted area of soil contamination.*

Response: The targeted excavation will not affect the recommended ICs for this area.

Comments - Waste Management Unit #3 Subsurface Investigation Summary and Remedy Recommendation

Comment SWMU3-1 – Section 1.1, WMU #3 Background, Page V1: *The sizes of tanks that were present in this waste management unit (WMU) should be presented.*

Response: The size of the tanks will be added.

Comment SWMU3-2 – Section 1.1, WMU #3 Background, Page V2: *The text offers rationale for incorporating this WMU into the Site-wide corrective action activities by identifying an adjacent product tank as the possible source of the documented release and of subsequent impacts on soil and groundwater. The text also states that soil removal associated with water line repair has occurred. A brief description of the adjacent tank, contents, and size should appear.*

Additionally, locations of the adjacent tank and soil removal during water line repair should be shown on Figure 3.

Response: Additional language will be added to clarify this section. WMU #3 consisted of 2 ASTs which were removed in 1985. In 1986 the release was identified at WMU #3 while completing excavation activities associated with a sprinkler repair. There is not an 'adjacent tank'. The exact location of the sprinkler repair is unknown. Only that it was located in WMU #3 which is indicated on **Figure S-3**.

Comment SWMU3-3 – Section 2.1, Soil Sample Collection, Page V3: *The text states that soil samples collected were either (1) biased toward evidence of impact identified from field observations and photoionization detector (PID) readings, or (2) if no evidence of impact was observed, collected from the 2-foot interval below the slab and the 2-foot interval above the groundwater table. The text also states that PID readings in the soil borings ranged from 0.1 to 24.8 parts per million (ppm). Soil boring WMU-3A was not sampled according to rationale provided. The highest PID reading was observed from approximately 5 to 6 feet below ground surface (bgs) in this boring, yet no sample was collected. One of the samples collected from this boring (between 9 and 10 feet bgs) with a lower PID reading contained a 1,1,1-trichloroethane concentration exceeding criteria. An explanation for deviation from sampling methodology should be provided, or additional soil sampling should be conducted in order to determine if the proposed remedy will be sufficient.*

Response: There was not a deviation from the sampling methodology. The sample was collected in accordance with sampling protocol which permitted biased sampling if there was a strong odor,

visual staining or elevated PID. The sample was biased towards evidence of impact (a strong odor and elevated PID of 14.5) that was identified in the 9 to 10 foot interval as noted on the boring log.

Comments - WMU #7 - Building 41A, Assembly Plant Waste Storage Tank Area Investigation Summary and Remedy Recommendation Memo

Comment SWMU7-1 – Section 2.1, WMU #7 Geology and Hydrogeology, Page W3: *The text states that a sheen was identified in all three borings ranging from 7 to 13.8 feet below ground surface (bgs). However, according to Section 2.2, no soil samples were collected from this interval. To properly evaluate risk associated with potential contamination within this waste management unit (WMU), additional soil samples should be collected from materials that exhibit the highest potential for contamination. Without proper identification of all contaminants possibly present, determination of appropriate institutional and engineering controls may not be feasible.*

Response – The soil sample intervals at WMU #7 were made in consultation with the onsite MDEQ representative and based on the best available field information during closure investigation activities. It is acknowledged that a data gap exists and the shallow impacted soil at WMU #7 will be sampled to confirm that the proposed remedy is appropriate.

Comment SWMU7-2 – Section 2.2, Soil and Groundwater Analytical Data, Page W3: *The text states that groundwater samples collected from a downgradient monitoring well contained cyanide concentrations exceeding groundwater-surface water interface (GSI) criteria. However, soil samples were not analyzed for cyanide. The nature and extent of cyanide present within this WMU should be determined prior to recommendation of a remedy.*

Response – The analyte list for the WMU #7 soil samples was based on the former contents of the USTs. The source of the cyanide detected downgradient of WMU #7 is not known. There have been multiple other documented releases located in the vicinity of WMU #7 including Releases C-0375-01, C-0320-01, C-0470-97, and C-0633-91 which could represent possible sources of cyanide. In addition, as discussed in the AOI 40-A, -B, & 16-C LNAPL memo, the exceedance of GSI criteria will be addressed by bulkheading activities. However, as shallow soil sampling is proposed in the response to Comment #1, cyanide will be included in the analytical parameter list.

Comments - WMU #10 - Factory 86, Building 04, Assembly Plant Waste Storage Tanks Summary and Remedy Recommendation Memo

Comment SWMU10-1 – Section 2.2, Soil and Groundwater Analytical Data, Page X3: *The text states that samples were submitted for analyses for select D- and F-listed waste constituents. Given that the size and contents of one of the underground storage tanks (UST) are unknown, a broader suite of analytes should have been selected. Without proper identification of all contaminants possibly present, determination of appropriate institutional and engineering controls may not be feasible.*

Moreover, tables and boring logs identify the depths at which these samples were collected. Not submitted for analyses were samples of soils exhibiting sheen and emitting odor (SB4 – 16 and 18 feet below ground surface [bgs], SB5 – between 13.5 and 15 feet bgs, and SB6 – between 12 and 14 feet bgs). The text should include rationale for sample collections at various depths.

Response: The soil sample analyte list and sample intervals were developed in consultation with the MDEQ and were based on the best available information during closure activities. The text will be updated to include this information. Also, as discussed in the memo a release was identified during the removal of the USTs in 1985. Approximately 2,500 to 3,000 cubic yards of underlying soil was removed along with Tanks 76 through 80. Oil was observed seeping into the excavation (approximately 10 to 15 feet below ground surface) and a French drain style collection system was installed in the excavation to collect residual oil for off-site disposal. In addition, select down/side gradient monitoring wells (04-1, 04-2, 04-3, 04-4, 04-5, and/or RFI-44-05) were sampled and/or gauged during RFI activities and subsequent annual monitoring events through 2012 (approximately 28 years following the identification of the release). LNAPL has not been detected in the down/side gradient monitoring wells. One VOC (ethylbenzene) was detected above GSI criteria at one well (04-2) in 2001 and select metals were detected above GSI criteria at RFI-44-05 in 2002/2003. These sample locations are located in the Outfall 011 drainage area and the monthly NPMP samples collected from the Outfall 011 GSI compliance have not detected any analytes above GSI criteria.

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MEMO

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From:
Micki M. Maki
Victoria Stacey

Date:
August 19, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
Group 4 - Response to USEPA Comments on AOI 40-A Soil Investigation Summary and Remedy Recommendation Memo, AOI 83/84-3 Lead Soil Impacts Investigation Summary and Remedy Recommendation Memo, and AOI 86-1 Soil Investigation Summary and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

This memo provides responses to the comments received from United States Environmental Protection Act (U.S. EPA) on April 10, 2014 on the area of interest (AOI) 40-A Soil Investigation Summary and Remedy Recommendation Memo, AOI 83/84-3 Lead Soil Impacts Investigation Summary and Remedy Recommendation Memo, and AOI 86-1 Soil Investigation Summary and Remedy Recommendation Memo (Memos).

AOI 40-A Soil Investigation Summary and Remedy Recommendation Memo Comments

Comment S40A-1 – Section 2, Soil Data Summary, Page 2/3: *The text states that pertinent AOI 40-A investigation data are attached. Other than a listing of concentration ranges compared to criteria, investigation data were not attached to this memo. Given the information provided, it is unclear if the extent of surface cover proposed is sufficient.*

Response: Pertinent Site data will be provided in **Appendix X** of the main report.

Comment S40A-2 – Section 3, Remedy Recommendation Rationale, Bullet 1, Page 2/3: *The memo appears to acknowledge that a cancer risk is posed by cumulative concentrations of semivolatile organic*

compounds (SVOC) in soil. Missing is the actual risk value and an indication whether the risk associated with this location has been delineated (horizontally and vertically). The text should be revised to include this information.

Response: This statement was incorrect and has been removed from the memo.

Comment S40A-3 – Section 3, Remedy Recommendation Rationale, Bullet 2, Page 2/3: *Although bulkheading will effectively reduce the direct groundwater-surface water interface risk from surface soil exceedances via the Outfall, the ultimate fate of groundwater impacted by these soils after completion of bulkheading is uncertain. A discussion of post-bulkheading activities or monitoring should appear.*

Response: Acknowledged. Further evaluation of the GSI monitoring data suggest that the groundwater between AOI 40-A and the Flint River requires further assessment and will be addressed as part of the Storm Sewer GSI Strategy discussed in **Appendix BB**. Monitoring and maintenance activities associated with the remedies will be included in the remedy implementation work plan documentation. The text will be revised to include this information.

AOI 83/84-3 Lead Soil Impacts Investigation Summary and Remedy Recommendation Memo Comments

Comment G83/84-3-1 - *The recommended remedy for AOI 83/84-3 presented in the Lead Soil Impacts Investigation Summary and Remedy Selection should be developed in conjunction with the recommended remedies and sewer bulk heading work associated with the Cutting Oil Plume at AOI 83/84-1 because the two areas appear to overlap. The remedies recommended for AOI 83/84-1 plume may encroach or coincide with lead-impacted soils within AOI 83/84-3. Incorporation of these two AOIs is suggested because the recommended institutional controls (IC) for the two AOIs are similar. This would optimize remedy recommendations and streamline the review process.*

Response: Additional language will be added to both the AOI 83/84-1 LNAPL remedy and the AOI 83/84-3 soil remedy in order to address how the remedies will interact.

Comments G83/84-3-2 - *Areas not available for further characterization due to site conditions (e.g., subsurface slabs) should be identified explicitly and discussed, with any relationship of these features to lead contaminants in AOI 83/84-3 soils noted.*

Response: Additional language was added to note the possible subfloor that was encountered at SB-83/84-04. Although refusal was met at several other locations during the 2012/2013 sampling event, a hand auger was being used to collect samples so the refusal could be

due to any number of subsurface conditions. A review of historic boring logs (completed using a drilling rig) from the AOI 83/84-3 lead soil area did not note subsurface slabs in the area.

Comment S83/84-3-1 - Section 1.1, Background, page 1.4: *This Section states that lead concentrations found in soil are compared to the Michigan Department of Environmental Quality (MDEQ) non-residential Direct Contact (NRDC) criterion; however, throughout the remainder of the document, "NDC" is listed for comparison to soil concentrations. Revise the text to be consistent.*

Response: Text will be revised to refer to the criteria as NDC.

Comment S83/84-3-2 - Section 2.1 Sample Collection, page 2/4: *No boring logs are attached for review of soil characterization or field observations. The term "shallow" should be defined and discussed as it relates to the existing ground surface and the 4- to 5-foot subsurface slabs encountered during soil boring refusals.*

Response: The logs for boring completed during 2012/2013 will be attached to the final memo. Historic boring logs are presented in the RFI Reports which are included in **Appendix Y**. The depth of impacts will be noted in the text. Also, additional language was added to note the possible subfloor that was encountered at SB-83/84-04. Although refusal was met at several other locations during the 2012/2013 sampling event, a hand auger was being used to collect samples so the refusal could be due to any number of subsurface conditions. A review of historic boring logs (completed using a drilling rig) from the AOI 83/84-3 lead soil area did not note subsurface slabs in the area.

Comment S83/84-3-3 - Section 2.3 Investigation Conclusions, page 2/4: *It remains unclear whether the nature and extent are fully defined at the AOI. If concentrations of lead in sampled soils do not exceed the NDC lead criterion, these results should be discussed to demonstrate that the AOI is fully characterized. Surface coverage of existing slabs and subsurface features should be discussed relative to soil boring locations. Specific data from historical documents provide the basis to identify and delineate the nature and extent of lead in soils at AOI 83/84-3, and thus should be presented.*

Response: The extent of impact is presented on **Figure Q-2**. Additional language will be added to clarify the extent of surface cover. Historic data will be presented or historic reports referenced, as appropriate.

Comment S83/84-3-4 - Section 3 Remedy Recommendations Rationale, page 2/4: *Specify the location of the existing factory slab in the legend. Discuss use of the 4- to 5 foot drop in elevation to determine extent, if no samples were collected beyond the edge of the slab and exceedances were detected down to 8 feet below ground surface.*

Response: Additional language will be added to clarify the use of the slab as delineation of exceedances. Figure 2 will also include the extent of the concrete slab. The exceedance from 6 to 8 feet bgs was located at SB-83/84-04, which is delineated by samples collected from RFI-83/84-18, RFI-83/84-37, SB-83/84-03, SB-83/84-14, and MW-83/84-15.

Comment S83/84-3-5 - Figure 2, Soil Impacts: *Soil borehole numbers are not fully legible. Provide the current surface cover elevations within the impacted area based on the former factory slab, and also indicate any subsurface infrastructure or obstructions such as concrete slabs that may affect implementation of the recommended remedy at AOI 83/84-1 and AOI 83/84-3. Depth of slab to groundwater and NDC are not depicted or discussed within the text.*

Response: The soil boring numbers will be clarified and extent of the slab will be indicated on Figure 2. Additional detail will be added to the memo to discuss the elevation and thickness of the slab and the ground surface to the south of the slab.

Comment S83/84-3-6 - Section 4.2, Institutional Controls, Bullet #2, page S3: *Discuss the effect of recommended remedy activities at AOI 83/84-1 on the recommended ICs for the impacted area of soil contamination at AOI 83/84-3.*

Response: Additional language will be added to both the AOI 83/84-1 LNAPL remedy and the AOI 83/84-3 soil remedy in order to address how the remedies will interact.

AOI 86-1 Soil Investigation Summary and Remedy Recommendation Memo Comments

Comments G86-1-1 - *The polychlorinated biphenyls (PCB) contamination appears to be localized and within the upper 2.7 feet of soil. Cost/benefit of limited excavation and disposal within this area should be evaluated to support a decision whether or not to eliminate this potential exposure pathway—particularly because of the proximity to the roadway and retaining wall that likely will require future maintenance or expansion. Consider also a recommendation for deferral of this limited excavation and disposal until roadway/retaining wall maintenance/expansion must occur.*

Response: The adjacent roadway is a facility road and there are no plans for maintenance or expansion. As engineering and institutional controls are already necessary at AOI 86-1 to address metals impacts, these controls will also address the PCB impacts.

Comment G86-1-2 - *The text should discuss specific and relevant information concerning potential for metal- and PCB-impacted soils to act as a continuing source of groundwater contamination. Discussion about mobility of the contaminants—particularly with the proposed cap that would both prevent direct contact and minimize water infiltration—should be included to further support the remedy recommendation.*

Response: The PCB impacts are shallow and above the water table. In addition PCBs do not readily dissolve in water so the PCB impacts will not act as a continuing source of GW contamination. The text will be modified to not that the surface cover will also minimize water infiltration.

Comments G86-1-3 - *This document includes no discussion or description of impacts from AOI 86-1 on the CSX property, or potential for presence of complete off-site exposure pathways and receptors.*

Response: Additional investigation is required to delineate the impacts on CSX property. In the event that exceedances of applicable criteria are identified on CSX property the impacts will be addressed in accordance with the Final Decision for the Southend of the Site - Corrective Measures to Address Offsite Soil Contamination.

Comment S86-1-1 - Page 3, Section 5, Remedy Recommended: *Provide a discussion regarding effect(s) of previous storm sewer bulkheading activities on the recommended remedy. For instance, confirm that soils in this area were not disturbed during the activities.*

Response: The text will be revised to indicate that the soils in this area were not disturbed during bulkheading activities and to reference **Figure 6 of the main report** which presents the bulkhead locations.

Comment S86-1-2 - Page 3, Section 5.1, Engineering Controls: *Clarify whether the "Proposed Area for Surface Cover Requirement" on Figure 2 is the same as the existing slab referenced in this text. If not, please depict the existing slab on Figure 2.*

Response: The slab will be noted on **Figure R-2**.

Comment S86-1-3 - Figure 2: *Figure 2 is mislabeled as Figure 1.*

Response: The figure number will be corrected.

Comment S86-1-4 - Figure 2: *Recommendation is to focus the map more closely on the site because detail is lost at this scale and soil boring identifications are partially obscured by the shading that depicts the "Proposed Area for Surface Cover Requirement." Also, data should be included regarding the three small areas with exceedences (e.g., RFI-86-1, RFI-86-01R).*

Response: **Figure R- 2** will be zoomed in to focus on the area south of Leith Street.

Comment S86-1-5 - Figure 2: *Consider adding detail showing the storm sewer bulkheads and relocation in relationship to the area recommended for engineering controls (EC) and institutional controls (IC).*

Response: The storm sewer bulkheads are presented on **Figure 6 of the main report**. The storm sewer relocation associated with the AOI 86-1 LNAPL area is actually being completed on the west side of the Site, not at AOI 86-1, as further discussed in the AOI 86-1 LNAPL Area memo presented in **Appendix A**.

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MEMO

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From:
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Date:
August 26, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
Group 5 - Response to USEPA Comments on the Priority #2 - AOI 05-1/05-5 Cutting Oil Area, Priority #5 - AOI 10-1/10-4 Hydraulic Oil Area, Priority #8, #14, and #15 AOI 36-1/36-2 LNAPL Area and Priority #16 - AOI 02-B Hydraulic Oil Area Evaluation and Remedy Recommendation Memo
Buick City Site, Flint, Michigan

This memo provides responses to the comments received from USEPA on May 13, 2014 and May 20, 2014 on the Priority #2 - AOI 05-1/05-5 Cutting Oil Area, Priority #5 - AOI 10-1/10-4 Hydraulic Oil Area, Priority #8, #14, and #15 AOI 36-1/36-2 LNAPL Area, and Priority #16 - AOI 02-B Hydraulic Oil Area Evaluation and Remedy Recommendation Memos (Memos).

Please note that the general comments begin with a G followed by the Priority # - Comment #. So General Comment 1 from Priority #2 memo is referred to as comment G2-1. Specific comments are named similarly, but they begin with an S.

Comments - #2 - AOI 05-1/05-5 Cutting Oil Area

Comment G2-1 -*The memorandum includes historical interim measures (IM) as part of the remedy recommendation, and it states that although light non-aqueous phase liquid (LNAPL) recovery has been possible, future LNAPL recovery is uncertain. Throughout the memorandum, inadequate rationale is presented to support this statement. Refer to specific comments 1 and 5 for further information regarding this general comment.*

Response: Available data do not indicate that future LNAPL recovery is feasible; however, the available data is limited as the majority of the monitoring wells at AOI 05-1 did not meet the transmissivity testing criteria or resulted in inconclusive transmissivity tests. Therefore, future LNAPL recovery is uncertain. One monitoring well will be installed in the interior of the LNAPL plume to evaluate the central portion of the plume and complete transmissivity testing if possible. The existing monitoring wells at AOI 05 will also be evaluated in 2014 to determine if there are additional locations where transmissivity testing can be completed.

Comment G2-2 -*Cross-sections, tables, and boring logs were not included with this memorandum.*

Response: The cross section and boring logs will be included with the final memo. Data tables will be presented in **Appendix X** of the Report.

Comment G2-3 - *Figures included in this memorandum do not show all proposed locations of recommended remedies.*

Response: The figures will be edited to include the locations of the recommended remedies.

Comment S2-1 - *Attachment 1, Section 2.3, Recovery Wells, Page 2/6: The text states that use of LNAPL recovery wells was discontinued because the LNAPL was causing the recovery pumps to malfunction. However, 1,000 gallons of LNAPL was removed in 1997. A discussion of how AOI 05-5 LNAPL characteristics cause such malfunction should be included either within this memorandum or as part of the remedy evaluation matrix. Potential remedies to be evaluated should still include recovery wells because these were effective. Different equipment (pumps or skimmers) that do not malfunction because of the LNAPL may be implemented more successfully.*

Response: Available information regarding the recovery wells will be added to Section 2.3 of Attachment 1. Additional LNAPL recovery at the AOI 05-5 LNAPL Area will not decrease the risk associated with AOI 05-5. The proposed remedies will more effectively reduce risks associated with the AOI 05-5 LNAPL Area.

Comment S2-2 - *Attachment 1, Section 3.1, Geology and Hydrogeology, Bullet 1, Page 2/6: The text states that fine sand is present to approximately 16 feet below ground surface (bgs). Attachment 2 states that fine sand is present to approximately 17.5 feet bgs. Revise to make consistent.*

Response: The information in Attachment 2 has been corrected.

Comment S2-3 - *Section 3.3, LNAPL Characteristics, LNAPL Analytical Data, Bullet 1, Page 4/6: The LNAPL characteristics indicate that some contaminants exceed RCRA toxicity characteristic criteria, and that toxicity characteristic leaching procedure (TCLP) analysis has not occurred. TCLP or synthetic*

precipitation leaching procedure (SPLP) extraction and analysis should be conducted to evaluate potential for leaching of those contaminants.

Response: TCLP analysis will be completed prior to implementing removal remedies.

Comment S2-4 - *Attachment 1, Section 3.3, LNAPL Characteristics, Transmissivity, Bullet 3, Page 5/6: The text states that LNAPL transmissivity as quantified at MW-05-04 was 0.05 square feet per day, which is below applicable thresholds for practical recovery. Transmissivity data obtained from only one monitoring well in an AOI with an impacted LNAPL area of approximately 80,000 square feet is not representative. Conclusions regarding practicality of LNAPL recovery by use of these data should be qualified or removed from the memorandum.*

Response: As discussed in Section 2.1.4 of the Report, transmissivity testing was conducted at locations that met the study requirements. Transmissivity testing was attempted at the three locations within the plume that met the requirements; however, as discussed in the memo, the testing was inconclusive at two locations and could not be quantified. The information from MW-05-04 is relevant and will remain in the report; however, it will be noted that the result indicates that recovery is impractical in this portion of the plume. Further, the smaller LNAPL areas of AOI 05-1 and AOI 05-5 are recommended to be targeted for excavation, which is much more effective at removing LNAPL mass than hydraulic recovery.

Comment S2-5 - *Attachment 4, Section 2, Remedy Recommendation Rationale, Bullet 1, Page 1/4: Although the text states that additional LNAPL removal would not change risks associated with the plume, this would reduce both the footprint of potential vapor phase risk and LNAPL mobility. The text should be revised.*

Response: Additional hydraulic LNAPL recovery will not significantly change the LNAPL footprint that could potentially generate a vapor phase risk due to methane generation through biodegradation nor direct contact due to PCBs in soil/LNAPL. While recovering additional LNAPL will reduce saturation, the volume that can be recovered, based on the results of the baildown tests, would have negligible effects on LNAPL mobility and the LNAPL mobility risks are more effectively addressed by the recommended remedies.

Comments - #5 AOI 10-1/10-4 Hydraulic Oil Area

Comment G5-1 - *Cross-sections, tables, and boring logs were not included with this memorandum.*

Response: The cross section and boring logs are included with the final memo. Data tables will be

presented in **Appendix X** of the main report.

Comment G5-2 - *Figures included in this memorandum do not show all proposed locations of recommended remedies.*

Response: The memo figures have been edited to include the locations of the recommended remedies.

Comment S5-1 -*Attachment 1, Section 2.1, Groundwater Collection and Treatment System, Page 2/6: The text states that the recovery system was taken out of service in 2010 because it was no longer effectively removing light non-aqueous phase liquid (LNAPL). It is unclear whether placement of the system in relation to existing LNAPL or the system itself was no longer effective.*

Response: The system was operational but was no longer effectively recovering LNAPL.

Comment S5-2 - *Attachment 1, Section 2.2, LNAPL Recovery Trench, Page 2/6: The text states that the recovery system was taken out of service in 2010 because it was no longer effectively removing LNAPL. It is unclear whether placement of the system in relation to existing LNAPL or the system itself was no longer effective.*

Response: The system was operational but was no longer effectively recovering LNAPL. The location of the recovery trench has also been added to the **Attachment 1 – Figure D1-2**.

Comment S5-3 - *Attachment 1, Section 3.2.1, Groundwater Analytical Data, Page 4/6: Figure 3 apparently does not adequately delineate the extent of groundwater impacts (e.g., impacts associated with groundwater analytical results from wells 20-145 and 30-100). Additional groundwater sampling is required to delineate the extent of groundwater impacts satisfactorily.*

Response: The AOI 10-1/10-4 LNAPL Area is located within the Outfall 003 storm sewer drainage basin where the GSI pathway is groundwater infiltration to the storm sewer. As discussed in Section 2.2.1 of the main report and **Appendix BB**, the NPMP program was implemented to determine whether the groundwater infiltrating into the Site storm sewers impacts the Flint River. During the RCES development activities in May 2010, the USEPA and MDEQ agreed to the approach of sampling of the storm sewers as a means to address potential GSI impacts in lieu of performing groundwater monitoring in wells adjacent to the sewer. It was agreed that samples collected in the sewers were representative of the aggregate groundwater quality discharging into the sewers from the surrounding groundwater and would more accurately reflect the potential risk to the Flint River. As such the GSI exceedances identified at 20-145 and 30-100 will be monitored and addressed as part of the NPMP program.

Comment S5-4 - *Attachment 1, Section 3.3, LNAPL Characteristics, LNAPL Analytical Data, Bullet 1, Page 5/6: Analytical results from LNAPL indicate that some contaminants exceed Resource Conservation and Recovery Act (RCRA) toxicity characteristic criteria. Moreover, toxicity characteristic leaching procedure (TCLP) analysis has not been conducted. TCLP or synthetic precipitation leaching procedure (SPLP) extraction and analysis should occur to evaluate potential for leaching of such contaminants.*

Response: TCLP analysis will be completed prior to implementing removal remedies.

Comment S5-5 - *Attachment 4, Section 2, Remedy Recommendation Rationale, Bullet 1, Page 1/4: Although the text states that additional LNAPL removal will not change risks associated with the plume, removal of additional LNAPL would reduce both the footprint of potential vapor phase risk and LNAPL mobility. The text should be revised accordingly.*

Response: Additional hydraulic LNAPL recovery will not significantly change the LNAPL footprint that could potentially generate a vapor phase risk due to methane generation through biodegradation. While recovering additional LNAPL will reduce saturation, the volume that can be recovered, based on the results of the baildown tests, would have a negligible effect on LNAPL mobility nor result in reducing risks associated with the LNAPL. Further, the LNAPL risks are appropriately addressed by the recommended remedies.

Comments - #8, 14, & 15 - AOI 36-1/36-2 LNAPL Area

Comment G8-1: The working document and the relationship between the Respondent (RACER) and the U.S. EPA is the September 30, 2011 RCRA 3008(h) Administrative Order on Consent and EPA looks to this to insure compliance and keep the cleanup on track.

Response: Acknowledged.

Comment G8-2: The multi-phase extraction system and the pilot test associated with it need to be carried forward and not limited to some of the conditions inserted into the recommended remedy in Attachment 3, Section 3.4. The statement that the "The feasibility and cost of the remedy will be dependent upon the results of the pilot test" and that the additional sampling proposed and the screening of this sampling prior to the pilot test suggest there's a scenario where the pilot test will not happen.

There are too many contingencies to this proposal, we have substantial data already in hand to understand the site conditions, and the technology on site to do the removal, and in sandy soil, and an

LNAPL that is accessible and removable. This needs to move forward as a proposed remedy.

Response:The pilot test work plan is currently being developed. We understand the concern – the purpose of the pilot test is to develop field information used to size the system, develop operating parameters and establish the endpoint for the system.

Comment G8-3: The insertion of the previous Historic Interim Measures, now defunct, as part of a proposed remedy is unnecessary. The function of these IMs has been completed, there was measurable removal using them and there is not a need to carry them forward as a proposed remedy.

Response: The memo text and **Table 8 of the main report** have been modified to more clearly note the completed IMs and the recommended remedies.

Comment S8-1 - Submittal Letter, Page 1/2: The letter states that two conceptual site model cross-sections (G-1 and G-2) are attached. G-1 and G-2 were not included as attachments.

Response: Acknowledged. The CSM cross sections will be included with the final report.

Comment S8-2 - Section 3.3, LNAPL Characteristics, LNAPL Analytical Data, Bullets 1-3, Pages 3-4/5: The text states that trichloroethene (TCE) and benzene were detected in the light non-aqueous phase liquid (LNAPL) at concentrations greater than Resource Conservation and Recovery Act (RCRA) toxicity characteristic criteria, and that toxicity characteristic leaching procedure (TCLP) analysis has not been completed. TCLP analysis for TCE and benzene should be performed.

Response: TCLP analysis will be completed prior to implementing removal remedies.

Comment S8-3 -Section 3.3, LNAPL Characteristics, LNAPL Analytical Data, Bullet 2, Pages 3-4/5: The text states that LNAPL from the central portion of the LNAPL Area has an ignitability of 50 degrees Fahrenheit. 40 Code of Federal Regulations (CFR) 261.21 states that a liquid with a flashpoint of less than 140 degrees Fahrenheit exhibits the characteristic of ignitability and is therefore a hazardous waste. A hazardous waste determination (per 40 CFR 262.11) should occur prior to recommendation of a remedy for this AOI.

Response: The LNAPL in this portion of the Site is primarily gasoline and is expected to be a recovered petroleum product (RPP) waste stream that will go to a refinery for processing into product per 40 CFR 261.4(a)(12)(I & ii) and/or 40 CFR 261.4(a)(18)(i & ii). All waste generated

during remedial activities will be characterized and disposed of per all applicable regulations.

Comment S8-4 - Section 3.3, LNAPL Characteristics, Transmissivity, Page 4/5: The text states that LNAPL from the southeastern and northwestern portions of the LNAPL Area was tested for transmissivity. The LNAPL present in the central LNAPL Area did not undergo transmissivity testing. Recommendations for a remedy for the central LNAPL Area should not be based on existing AOI transmissivity results unless transmissivity testing is completed in the central portion of the LNAPL Area.

Response: There is insufficient LNAPL present (<0.05 ft) in the monitoring well located in the central portion of the LNAPL area to conduct transmissivity testing. The remedy proposed for this area was not based on the results of the transmissivity testing.

Comment S8-5 - Attachment 1, Figure 2: The figure appears to inaccurately estimate the horizontal extent of LNAPL present at this AOI. Laser-induced fluorescence (LIF) borings north of the LNAPL extent are shown on the figure as >200 percent response but are not included in the current LNAPL plume extent. Clarification on use of LIF data to determine the current LNAPL extent at this AOI is required.

Response: High LIF response does not indicate the presence of measurable LNAPL. As discussed in Section 2.1.1 of the main report, LIF responses above background are indicative of the presence of LNAPL in the subsurface, but the magnitude of the response is not representative of mobile LNAPL. The magnitude of the LIF response is related to the soil type, LNAPL type (mainly the fraction of polycyclic aromatic hydrocarbons [PAHs]), and the LNAPL pore saturation. The residual LNAPL saturation of a soil is directly related to soil structure, LNAPL physical properties, and the maximum historical LNAPL saturation, which are spatially variable at an environmental site. The LNAPL extents are based on measurable LNAPL. Please refer to Section 2.1.3 (LNAPL Extent Evaluation) of the main report for additional information on how the LNAPL extents were determined.

Comment S8-6 - Attachment 3 Recommended Remedy, Figure 1: The figure does not indicate the location of the proposed multiphase extraction remedy. The figure also does not indicate what actions are recommended for the LNAPL present east and west of the proposed surface cover.

Response: The footprint of the MPE plume will be determined following completion of the pilot testing and investigation activities. This information will be provided in basis of design documentation. The memo will be edited to include a discussion of the portions of the plume which extend beyond the former building footprint to the west and east.

Comment S8-7 - In Figure 1 and Figure 2 the AOI 35-1/36-2 plume doesn't include a graphic showing the differentiation between the plumes compositions explained in the text. This is important information to display that is also relevant to the remedy choices.

Response: The Figure G1-2 will be revised to include the composition of the LNAPL areas.

Comment S8-8 - Attachment 1, Section 3.2 states that "Analytical data were compared to applicable Michigan Part 201 non-residential criteria. The storm sewers in the AOI 36-1/36-2 LNAPL Area have been bulkheaded; therefore, the groundwater surface water pathway is not relevant." All pathways are relevant, the groundwater to surface water pathway always can be a conduit for pollution from the site to reach the river.

Response: Acknowledged. The text will be modified to indicate that the pathway is no longer applicable in this portion of the Site.

Comment S8-9 - Attachment 1, Section 3.3 states regarding the NSZD data "The results show that LNAPL near monitoring well RFI-36-42 is being depleted at a rate of 3,217 gallons per acre per year." The NSZD data is experimental data and preliminary information that is not applicable to EPA guidance documents. EPA would not want to use NSZD data to make decisions, or as a baseline for any active LNAPL remedies, or use to screen any remedies out.

Response – The decision to recommend or rule out remedies at the Site are based on a review of all of the information available. NSZD is a useful piece of information, but would not be used as the single reason to select or rule out a remedy.

Comment S8-10 - Attachment 3, Section 3.5 states "The remedy recommended to address shallow soil impacts beneath the direct contact concerns is to maintain the existing Factory 36 slab over the impacted area" The areas of the plume to the northeast under the parking lot and in the southeast are beyond the Factory 36 slab and it is unclear if these areas are addressed in terms of eliminating direct contact with soils.

Response: The text will be edited to clarify the location of the direct contact concerns and current surface cover conditions at the Site.

Comment S8-11 - Attachment 3, Section 3.8 states "Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 201 of the

NREPA,…" EPA's proposed remedy envisions area identified as surface cover areas will continue to have these same protections going forward. Any changes to remedies finalized need to be reopened in a formalized process consistent with the RCRA 3008(h) Administrative Order on Consent between RACER and U.S. EPA at Buick City.

Response: For redevelopment purposes the Declaration of Restrictive Covenant (DRC) is designed to accommodate potential changes in site conditions to facilitate redevelopment of the site. Any modifications to the DRC designed to facilitate such redevelopment must be approved by the regulatory agencies.

Typical language (copied below) from the DRC approved by EPA for Livonia and Pontiac will be included in the DRC for Buick City.

Modification/ Release/Rescission: Grantor or Owner may request in writing to MDEQ and USEPA, at the addresses provided in herein, modifications to, or release or rescission of, this Restrictive Covenant. This Restrictive Covenant may be modified, released or rescinded only with the written approval of MDEQ and USEPA. Any approved modification to, or release or rescission of, this Restrictive Covenant shall be filed with the appropriate Registrar of Deeds by the Grantor or Owner and a certified copy shall be returned to MDEQ and USEPA at the addresses provided herein.

Comments - #16 AOI 02-B Hydraulic Oil Area

Comment S16-1 Summary, Page N1: The summary of the decision tree evaluation notes that storm sewers in AOI 02-B have been bulkheaded; however, Attachment 2 notes that an outfall was bulkheaded during RFI activities. Please clarify whether a single outfall or multiple storm sewers have been bulkheaded. Additionally, provide a discussion regarding the effects of bulkheading, and revise Figure 2 to depict the location of the storm sewer or outfall and bulkhead(s).

Response: The Outfall 006 storm sewer main (which services this portion of the Site) was bulkheaded during the RFI prior to the CSX property boundary. The location of the bulkhead is presented on **Figure 6 of the main report**. The location of the storm sewers in the vicinity of the AOI 02-B LNAPL Area are also presented on the CSM **Figure M-1**.

Comment S16-1 Section 1, Background, Page N1-1: The text states that investigation data are attached or presented in Appendix X. Investigation data were not attached to the memorandum, and it is unclear to

what report Appendix X is appended. Correct the Appendix reference or provide a specific report reference including title and date, and include the title of the appendix.

Response: Data tables will be presented in **Appendix X** of this report.

Comment S16-1 Section 3.2, Groundwater and Soil Analytical Data, Page N1-2: This section notes that neither groundwater nor soil analytical data exceed applicable Michigan Part 201 non-residential criteria. The discussion should provide a timeframe indicating when the analytical data were acquired and the trends associated with the data (i.e., what, historically, the analytical data demonstrate).

Response: Data tables will be presented in **Appendix X** of this Report. The data tables include the dates that the samples were collected. The majority of the Site data were collected during RFI activities conducted from 2001 to 2005; however, Site data collected through March 19, 2014 are evaluated in this report. Also, the main report includes a discussion of how the applicable criteria were identified.

*Comment S16-1 Section 3.3, LNAPL Characteristics, LIF Data, Page N1-2**:** Discuss how the footprint of the light non-aqueous phase liquid (LNAPL) plume at AOI 02-B was estimated, specifically regarding how the horizontal plume extent was refined by reference to laser-induced fluorescence (LIF) data. Additionally, discuss the LIF data in terms of vertical range of impact, and provide LIF boring logs.*

Response: Please refer to Section 2.1.3 (LNAPL Extent Evaluation) of the main report for additional information on how the LNAPL extents were determined. Section 2.1.1 of the Report discusses the LIF investigations and in which reports LIF data are presented. Pertinent data reports are presented in **Appendix Y**. The range of LIF impacts are discussed in Attachment 1 of the memo.

Comment S16-1 Attachment 1, Figure 2: The figure appears to inaccurately estimate the horizontal extent of LNAPL present at this AOI. For example, LIF borings LIF-02-006, LIF-02-007, LIF-02-018, and LIF-02-019 are shown on the figure as >200 percent response but are not included in the current LNAPL plume extent. Clarification on use of LIF data to determine the current LNAPL extent at this AOI is required. Moreover, additional discussion is needed relating the geographic location of LIF-02-019 and groundwater flow in the vicinity of LIF-02-019 to the historical LNAPL plume depicted on Figure 2. A subsequent revision to Figure 2 may be required.

Response: High LIF response does not indicate the presence of measurable LNAPL. The LNAPL extents are based on measurable LNAPL. Please refer to Section 2.1.3 (LNAPL Extent Evaluation) of the main report for additional information on how the LNAPL extents were determined. Regarding LIF-02-019, based on the locations and LIF response this area of impact

does not appear related to the AOI 02-B LNAPL Area. A monitoring well will be completed in this area to determine if LNAPL is present in this area.

Comment S16-1 Attachment 2 Notes, #4, Page N2-2: Clarify locations and well numbers of sentinel wells around the periphery of AOI 02-B.

Response: Sentinel wells for future monitoring will be identified as part of the groundwater monitoring program presented in the CMI Work Plan.

Comment S16-1 Attachment 3 Recommended Remedy, 2. Remedy Recommendation Rationale, fifth bullet, Page N3-1: Specify locations of the storm sewer bulkheads noted in this bullet, and proximities of these to the AOI 02-B Hydraulic Oil Plume.

Response: The locations of all storm sewer bulkheads will be presented on **Figures 5 and 6 of the main report**. A reference to **Figure 6** will be added to Attachment 3.

Comment S16-1 Attachment 3 Recommended Remedy, 3.1 Institutional Controls, Page N3-2: Given that the extent of the LNAPL plume that poses potential vapor phase risk extends beyond the site property, the site-wide institutional controls proposed will not be adequate. Additional controls placed on adjacent property should be included as part of the recommended remedy.

Response: Attachment 1 – Section 2.2.4 discusses the evaluation of the groundwater and soil did not exceed vapor intrusion screening levels. In addition, the adjacent CSX property consists of rail road tracks and it is highly unlikely that the tracks will be replaced by an occupiable structure in the foreseeable future. Therefore, no further investigation is recommended.

Appendix W

LNAPL Remedial Decision Tree Template

LNAPL Remedial Decision Tree - LNAPL Conceptual Site Model Development
RACER Buick City Template
Flint, Michigan

LNAPL CONCEPTUAL SITE MODEL (LCSM) DEVELOPMENT – MENU OF OPTIONS

	Potential Parameters/Considerations	Potential Evaluation Methods	Discussion
LNAPL Body Delineation/ Characterization	1. LNAPL body geometry: horizontal/ vertical extents, position relative to water table 2. Relative intensity of impacts (hot spots)	1. Installation of wells/borings, laser-induced flourescence (LIF), resistivity 2. Soil sampling (TPH, LNAPL saturations), groundwater sampling, LIF, resistivity	
Geology/ Hydrogeology	1. General Stratigraphy 2. Impacted Soil Types 3. Hydraulic Gradients 4. LNAPL Gradient 5. Hydraulic Conductivity	1,2. Field screening of soil borings, laboratory grain size analysis 3,4. Well gauging 5. Slug tests, pumping tests, laboratory testing	
LNAPL Physical/ Chemical Properties	1. LNAPL viscosity 2. LNAPL specific gravity 3. LNAPL type/age 4. LNAPL chemical composition	1,2. Laboratory physical property testing 3. Laboratory forensic testing/fingerprinting 4. Laboratory chemical analytical testing	
Dissolved and Vapor Phase Impacts	1. Groundwater concentrations of LNAPL constituents 2. Soil gas concentrations of LNAPL constituents 3. Soil gas explosivity	1. Groundwater sampling/laboratory testing 2. Soil gas sampling/laboratory testing 3. Field screening of well headspace and/or soil gas samples using handheld lower explosive limit (LEL) meter	1. Focus on wells without LNAPL. The potential benefit of sampling groundwater under LNAPL should be weighed against the risk of obtaining LNAPL-contaminated samples (LNAPL presence may not be readily apparent in a groundwater sample). 2. The need for soil gas sampling and the potential parameter list can be screened based on the volatility of the LNAPL and/or specific constituents (e.g., test for constituents with Henry's law constant > $1e^{-5}$ atm-m^3/mol and vapor pressure > 0.05 Torr)
LNAPL Mobility	1. Age of LNAPL body 2. Soil TPH concentrations 3. LNAPL saturations and residual saturations 4. LNAPL transmissivity 5. Recovery system performance 6. Dissolved phase trends *Typically involves a weight of evidence approach where multiple lines of evidence are considered (due to the complexity of multi-phase flow in the subsurface and the technical limitations of the potential evaluation methods).	2. Comparison against appropriate C_{res} value or conversion of TPH concentrations to saturations and comparison to typical residual saturation values (see ASTM E2531-06) 3. Soil core sampling and laboratory petrophysical testing (e.g., pore fluid saturation testing, water drive testing) 4. Field LNAPL baildown testing, pumping tests, field dye tracer testing (see ASTM E2856-11) 5. LNAPL recovery system cumulative recovery/ recovery rate plots, decline curve analysis 6. Groundwater concentration trends of LNAPL parameters	1. Older LNAPL is less likely to be mobile 2,3. LNAPL saturations exceeding residual levels provide a line of evidence of LNAPL mobility 4. LNAPL transmissivity > 0.5 ft^2/day provides a line of evidence of LNAPL mobility (see Swiger 2013) 5. Poor recovery system performance may provide strong evidence that remaining LNAPL is at residual levels/immobile (if the system has been effectively implemented and operated) 6. Dissolved phase trends provide an indication of the state of the LNAPL body (e.g., stable dissolved phase trends = stable LNAPL)
LNAPL Migration	1. LNAPL body expansion and migration *LNAPL migration differs from the LNAPL mobility consideration above in that is only considers the potential for LNAPL mobility around the perimeter of an LNAPL body (i.e., its ability to migrate or expand into areas that are not already impacted).	1. One or more LNAPL mobility lines of evidence indicates potential mobility along LNAPL body perimeter 2. LNAPL observations in sentry wells installed in clean soil 3. Estimate critical LNAPL head (pore entry displacement pressure) at LNAPL periphery	3. Critical LNAPL head (pore entry displacement pressure) exceeded at LNAPL periphery represents a potential for LNAPL body expansion/ migration
LNAPL Recoverability	1. Potential LNAPL recovery rates 2. Fraction of LNAPL body that may be recoverable *Most of the potential evaluation methods listed above for LNAPL mobility will also provide evidence relating to the potential recoverability of the LNAPL.	1. LNAPL recovery pilot results, LNAPL transmissivity estimation, full-scale LNAPL recovery system performance 2. Comparison of LNAPL saturations and residual saturations	1. LNAPL recovery may be considered technically practicable where LNAPL recovery rates exceed a minimum level and/or where LNAPL transmissivity > 0.5 ft^2/day (see Swiger 2013) 2. Regardless of the technical practicability of LNAPL recovery, any recovery activity will only have a significant effect on an LNAPL body where LNAPL saturations significantly exceed residual levels (i.e., significant recoverable fraction)
Potential Remedial Drivers	1. Risk (compositional concerns) 2. LNAPL mobility/migration (saturation concerns) 3. Non-risk (non-technical) factors such as aesthetic (e.g., visual, olfactory), regulatory or other considerations (e.g., property transaction condition)	1. Will vary from comparison of existing site data to generic criteria, to quantitative human health and ecological risk assessment (depending on complexity of site and magnitude of potential risks) 2. See LNAPL mobility and LNAPL migration lines of evidence and approaches above 3. Review applicable LNAPL regulations 3. Establish site goals	

NOTES/REFERENCES:

The “menu” provided above presents potential elements of an LCSM, potential evaluation methods and potential metrics (where applicable). The need to quantify specific items above should be based on a preliminary consideration of site-specific goals and site complexity. *It will not be necessary to quantify all items above at all sites.*

Table C-1 of ITRC’s Technical Regulatory Document entitled Evaluating LNAPL Remedial Technologies for Achieving Project Goals provides more detail on LCSM components and presents a three level tiered approach to LCSM development based on increasing levels of site complexity

Table X4.1 of ASTM Standard E2531-6 provides detailed information on LNAPL site data collection methods and their applicability.

Swiger, N., 2013. Nonaqueous Phase Liquids (NAPL) Management. Presentation at the American Institute of Professional Geologists (AIPG), Michigan Section, March 2013 Meeting.

LNAPL Remedial Decision Tree
RACER Buick City Template
Flint, Michigan

LNAPL Compositional Concerns (potential exposure/risk issues):
- Explosive hazards (vapor accumulation in confined spaces/ utilities, open excavations)
- Dissolved-phase concentrations (migration toward surface water bodies or groundwater supply wells)
- Vapor-phase concentrations (vapor intrusion/long-term exposure risk)
- Direct contact or ingestion

EVALUATE LNAPL CONCERNS FROM LCSM

LNAPL Concerns = Remedial Drivers

Compositional Concerns
Risk-based drivers such as unacceptable levels of dissolved or vapor-phase impacts

Saturation Concerns
Drivers relating to the mitigation of LNAPL migration and/or reduction of LNAPL mobility

LNAPL Saturation Concerns (mobility and migration issues)
- Potential for LNAPL to spread and create new or increased risk (migration toward surface water, property boundary, underground utilities)
- Aesthetic/Nuisance issues

1

Risk: Are unacceptable dissolved phase, vapor phase or direct contact exposures associated with the LNAPL under any use scenarios?

- No → No Action Necessary
- Yes → Do feasible options exist to mitigate unacceptable risk through compositional change? (9)
  - No → Cost-Benefit: Is there potential benefit to partial treatment/removal that outweighs costs? (5)
    - Yes → Implement treatment/removal action (6)
    - No → Are controls required? (7)
  - Yes → Can institutional/engineering controls provide effective risk mitigation? (10)
    - No → Cost-Benefit: Is there potential benefit to partial treatment/removal that outweighs costs? (5)
    - Yes → Implement treatment/removal action (6)

Migration: Is LNAPL migrating or potentially migrating (i.e., mobile along perimeter)? (2)

- No → **Mobility**: Is LNAPL potentially mobile within stable LNAPL perimeter? (3)
  - No → Are controls required? (7)
  - Yes → **Recoverability**: Is LNAPL readily recoverable? (4)
    - No → Are controls required? (7)
    - Yes → Cost-Benefit: Will potential benefit of LNAPL recovery outweigh costs? (5)
      - No → Are controls required? (7)
      - Yes → Implement LNAPL Recovery Remedy (6)
- Yes → Do feasible options exist to mitigate migration through LNAPL recovery or mass control? (6)
  - No → Are controls required? (7)
  - Yes → Implement LNAPL Recovery Remedy (6)

Are controls required? (7)

- Yes → Implement Controls → Implement Long-Term Stewardship/ Monitoring Plan (**as required**) (8)
- No → Implement Long-Term Stewardship/ Monitoring Plan (**as required**) (8)

Implement Long-Term Stewardship/ Monitoring Plan (**as required**) (8) → Corrective Action Complete

(#) NOTES

Note:
Template modified on June 20, 2014 from February 6, 2013 working draft.

LNAPL Remedial Decision Tree Notes
RACER Buick City Template
Flint, Michigan

1 The LCSM may identify both risk and mobility/migration issues at a given site. Consequently, compositional change techniques (to mitigate risk) and saturation reduction techniques (to mitigate mobility/migration concerns) may represent concurrent considerations that may require independent remedies.

2 Migration is only likely to be occurring where releases are active or shortly after cessation where a LNAPL gradient/head is present. Due to the complexity of multi-phase flow in porous media and the limitations of available assessment methods, LNAPL migration potential should be evaluated using multiple lines of evidence (see LCSM Menu – Page 1)

3 LNAPL Mobility – Is LNAPL present at saturations exceeding residual values? Example lines of evidence listed in LCSM Menu – Page 1.

4 The presence of readily recoverable LNAPL as defined by transmissivity > 0.5 ft^2/day does not necessarily indicate that a significant fraction of an LNAPL body would be beneficially affected through LNAPL recovery (Swiger 2013). An understanding of the fraction of the LNAPL body that may be recoverable is necessary in order to establish a realistic expectation of the actual benefit of any LNAPL recovery activity and a determination of whether the LNAPL body is “readily recoverable.” See Table 2 of the main report.

5 The potential benefit of LNAPL remediation should be weighed against the potential costs in terms of the associated expenditure of financial and natural resources, the risks involved in implementation, and the contamination potentially resulting from the remedial action (i.e., sustainability considerations). For situations where LNAPL bodies are stable with no associated risk, the net environmental benefit of active engineered LNAPL remedial systems should be scrutinized. See Table 8 of the main report.

6 Establish LNAPL recovery objectives and science-based achievable/measureable LNAPL recovery end-points prior to implementing LNAPL remediation (e.g., reduction of LNAPL transmissivity to less than 0.5 ft^2/day to meet a saturation objective).

7 Considering the significant technical limitations of LNAPL mass recovery or compositional change, engineering and/or institutional controls should be considered in conjunction with or in lieu of remedial action. See Tables 6, 7, and 10 of the main report.

8 Perform any necessary monitoring to confirm LNAPL remedial goals are/were met. See Table 8 of the main report.

9 LNAPL compositional change remediation is implemented to reduce the concentration or mole fraction of specific compounds in LNAPL that contribute to dissolved and or vapor phase concerns (i.e., air sparging and soil vapor extraction to reduce the mole fraction of benzene in LNAPL). Phase change technologies can be used to target immobile LNAPL, unlike conventional LNAPL mass recovery technologies such as LNAPL skimming. Examples of compositional change techniques may include air sparging, enhanced biodegradation, in situ thermal treatment, and in-situ chemical oxidation. Some phase change remedial technologies will accomplish both LNAPL mass recovery (saturation objective) and compositional change objectives simultaneously. See Table 7 of the main report.

10 Examples of potentially effective removal actions include excavation with off-site disposal, excavation with ex-situ thermal treatment and in-situ thermal treatment (e.g., electrical resistance heating with high vacuum extraction). See Table 7 of the main report.

Note:
Template modified on June 20, 2014 from February 6, 2013 working draft.

Appendix X

Site Data - On CD

Table A-1

Priority #1 - AOI 86-1 Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	87-FP2 09/24/01	87-FP2 06/19/02	87-FP3 09/27/01	87-FP3 06/18/02	87-FP3 04/04/03	87-FP3 06/05/13	87-FP5 09/28/01	87-FP5 06/19/02	87-FP5 04/03/03	87-FP5 06/05/13
VOC															
1,1,1,2-Tetrachloroethane	ug/L	- -	- -	96,000	1,100,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/L	- -	89	1,300,000	1,330,000	1.2	1 U	1.2	0.84 J	1 U	20 UY	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	- -	78	77,000	2,970,000	1 U	1 U	1 U	1 U	1 U	20 UY	1 UJ	1 U	1 U	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	- -	32	170,000	170,000	1 U	1 U	1 U	1 U	1 U	600 UY	1 U	1 U	1 U	30 U
1,1,2-Trichloroethane	ug/L	- -	330	110,000	4,420,000	1 U	1 U	3.9	1.2	1.7	20 UY	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	1.8	1.8	31	54	15	20 UY	1.8	1.2	1.6	1 U
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	1 U	1 U	27	11	20	20 UY	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	ug/L	- -	- -	18,000	1,900,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	- -	99	300,000	300,000	5 U	5 U	5 U	5 U	5 U	40 UY	5 U	5 U	5 U	2 U
1,2,4-Trimethylbenzene	ug/L	56,000	17	56,000	55,890	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	- -	- -	1,200	1,230	1 U	1 U	1 U	1 U	1 U	20 UY	1 U	1 U	1 U	1 U
1,2-Dibromoethane	ug/L	- -	5.7	15,000	4,200,000	1 U	1 U	1 U	1 U	1 U	20 UY	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	ug/L	- -	13	160,000	156,000	1 U	1 U	1 U	1 U	1 U	20 UY	1 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/L	2,500,000	360	59,000	8,520,000	1 U	1 U	0.73 J	0.74 J	1 U	20 UY	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/L	550,000	230	36,000	2,800,000	1 U	1 U	1 U	1 U	1 U	20 UY	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/L	- -	45	61,000	61,150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/L	- -	28	41,000	111,000	1 U	1 U	1 U	1 U	1 U	20 UY	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	ug/L	- -	17	74,000	73,800	1 U	1 U	1 U	1 U	1 U	20 UY	1 U	1 U	1 U	1 U
2-Butanone	ug/L	- -	2,200	240,000,000	240,000,000	25 U	25 U	25 U	25 U	25 U	400 UY	2.9 J	25 U	25 U	20 U
2-Hexanone	ug/L	- -	- -	8,700,000	16,000,000	50 U	50 U	50 U	50 U	50 U	1,000 UY	50 U	50 U	50 U	50 U
2-Methylnaphthalene	ug/L	- -	19	25,000	24,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	ug/L	- -	- -	20,000,000	20,000,000	50 U	50 U	50 U	50 U	50 U	200 UY	50 U	50 UJ	50 U	10 U
Acetone	ug/L	15,000,000	1,700	1,000,000,000	1,000,000,000	25 U	25 U	1.1 J	25 U	25 U	400 UY	25 U	2.9 J	25 U	30
Acrylonitrile	ug/L	6,400,000	2	190,000	75,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/L	68,000	200	35,000	1,750,000	1 U	1 U	0.76 J	1	1.1	20 UY	1 U	1 U	1 U	1 U
Bromobenzene	ug/L	- -	- -	390,000	413,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/L	- -	- -	37,000	6,740,000	1 U	1 U	1 U	1 U	1 U	20 UY	1 U	1 U	1 U	1 U
Bromoform	ug/L	- -	- -	3,100,000	3,100,000	1 U	1 U	1 U	1 U	1 U	20 UY	1 U	1 U	1 U	1 U
Bromomethane	ug/L	- -	35	9,000	14,500,000	1 U	1 U	1 U	1 U	1 U	40 UY	1 U	1 U	1 U	2 U
Carbon Disulfide	ug/L	13,000	- -	550,000	1,190,000	5 U	5 U	5 U	5 U	5 U	100 UY	5 U	5 U	5 U	5 U
Carbon Tetrachloride	ug/L	- -	45	2,400	793,000	1 U	1 U	1 U	1 U	1 U	20 UY	1 U	1 UJ	1 U	1 U
Chlorobenzene	ug/L	160,000	25	470,000	472,000	1 U	1 U	1 U	1 U	1 U	20 UY	1 U	1 U	1 U	1 U
Chloroethane	ug/L	110,000	1,100	5,700,000	5,740,000	1 U	1 U	120 D	280 D	120 D	20 UY	1 U	1 U	1 U	1 U
Chloroform	ug/L	- -	350	180,000	7,920,000	1 U	1 U	1 U	1 U	1 U	20 UY	1 U	1 U	1 U	1 U
Chloromethane	ug/L	36,000	- -	45,000	6,340,000	1 U	1 U	1 U	1 U	1 U	20 UY	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	12	11	450 D	190 D	200 D	290 Y	54	51 J	25	62
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	20 UY	1 U	1 U	1 U	1 U
Cyclohexane	ug/L	- -	- -	- -	- -	5 U	5 U	5 U	5 U	5 U	20 UY	5 U	5 U	5 U	1 U
Dibromochloromethane	ug/L	- -	- -	110,000	2,600,000	1 U	1 U	1 U	1 U	1 U	20 UY	1 U	1 U	1 U	1 U
Dibromomethane	ug/L	- -	- -	- -	11,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/L	- -	- -	300,000	300,000	1 U	1 U	1 U	1 U	1 U	20 UY	1 U	1 U	1 U	1 U
Diethyl ether	ug/L	650,000	- -	61,000,000	61,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/L	43,000	18	170,000	169,000	1 U	1 U	1 U	1 U	1 U	20 UY	1 U	1 U	1 U	1 U
Hexachloroethane	ug/L	- -	6.7	50,000	50,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Iodomethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	ug/L	29,000	28	56,000	56,000	5 U	5 U	5 U	5 U	5 U	20 UY	5 U	5 U	5 U	1 U
m&p-Xylene	ug/L	- -	- -	- -	- -	2 U	2 U	2 U	2 U	2 U	40 UY	2 U	2 U	2 U	2 U
Methyl acetate	ug/L	- -	- -	- -	- -	5 U	5 U	5 U	5 U	5 U	200 UY	5 U	5 U	5 UJ	10 U
Methyl tert-butyl ether	ug/L	- -	7,100	47,000,000	46,800,000	5 U	5 U	5 U	5 U	5 U	100 UY	5 U	5 U	5 U	5 U
Methylcyclohexane	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	400 UY	1 U	1 U	1 U	20 U
Methylene Chloride	ug/L	- -	1,500	1,400,000	17,000,000	5 U	5 U	2.4 J	5 U	5 U	100 UY	5 U	5 UJ	5 U	5 U
Naphthalene	ug/L	- -	11	31,000	31,000	NA	NA	NA	NA	NA	100 UY	NA	NA	NA	5 U
n-Butylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	20 UY	NA	NA	NA	1 U
o-Xylene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	20 UY	1 U	1 U	1 U	1 U
p-Isopropyltoluene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/L	140,000	80	310,000	310,000	1 U	1 U	1 U	1 U	1 U	20 UY	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/L	- -	60	170,000	200,000	1 U	1 UJ	41	15 J	18	40 Y	1 U	1 U	1 U	1 U
Tetrahydrofuran	ug/L	60,000	11,000	16,000,000	1,000,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/L	61,000	270	530,000	526,000	1 U	1 U	1 U	1 U	1 U	20 UY	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/L	230,000	1,500	200,000	6,300,000	3.3	0.97 J	16	8	12	20 UY	2.2	1.5	1.1	1 U
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	20 UY	1 U	1 U	1 U	1 U
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/L	- -	200	4,900	1,100,000	42	14	**2,000 D (GSI (2013))**	**990 D (GSI (2013))**	**960 D (GSI (2013))**	**1,660 Y (GSI (2013))**	12	11 J	8.9	34
Trichlorofluoromethane	ug/L	- -	- -	1,100,000	1,100,000	1 U	1 U	1 U	1 U	1 U	20 UY	1 U	1 U	1 U	1 U
Vinyl Chloride	ug/L	33,000	13	13,000	2,760,000	2.8	0.7 J	**280 D (GSI (2013))**	**430 D (GSI (2013))**	**97 D (GSI (2013))**	**110 Y (GSI (2013))**	6.3	1.9	2	5
Xylenes (total)	ug/L	70,000	41	190,000	186,000	1 U	1 U	1 U	1 U	1 U	20 U	1 U	1 U	1 U	1 U
SVOC															
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	- -	- -	- -	1,200,000	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	- -	5	- -	800,000	4.2 U	NA	4.4 U	NA	NA	NA	4 U	NA	NA	NA
2,4-Dichlorophenol	ug/L	- -	11	- -	4,500,000	11 U	NA	11 U	NA	NA	NA	10 U	NA	NA	NA
2,4-Dimethylphenol	ug/L	- -	380	- -	7,870,000	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	21 UJ	NA	22 UJ	NA	NA	NA	20 U	NA	NA	NA
2,4-Dinitrotoluene	ug/L	- -	- -	- -	270,000	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
2-Chloronaphthalene	ug/L	- -	- -	- -	6,740	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
2-Chlorophenol	ug/L	- -	18	1,100,000	22,000,000	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
2-Methylnaphthalene	ug/L	- -	19	25,000	24,600	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	21 U	NA	22 U	NA	NA	NA	20 U	NA	NA	NA
2-Nitrophenol	ug/L	- -	- -	- -	2,500,000	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
3&4-Methylphenol	ug/L	- -	- -	- -	- -	11 U	NA	11 UJ	NA	NA	NA	10 UJ	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	- -	0.3	- -	3,110	21 U	NA	22 U	NA	NA	NA	20 U	NA	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	21 U	NA	22 U	NA	NA	NA	20 U	NA	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	21 UJ	NA	22 U	NA	NA	NA	20 U	NA	NA	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
4-Chloro-3-Methylphenol	ug/L	- -	7.4	- -	3,900,000	5.3 UJ	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA

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4-Chloroaniline	ug/L	- -	- -	- -	- -	21 U	NA	22 U	NA	NA	NA	20 U	NA	NA	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	21 U	NA	22 U	NA	NA	NA	20 U	NA	NA	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	21 U	NA	22 U	NA	NA	NA	20 U	NA	NA	NA
Acenaphthene	ug/L	- -	38	4,200	4,240	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
Acenaphthylene	ug/L	- -	- -	3,900	3,930	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
Acetophenone	ug/L	- -	- -	6,100,000	6,100,000	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
Anthracene	ug/L	- -	- -	43	43.4	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
Atrazine	ug/L	- -	7.3	- -	70,000	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	5.3 UJ	NA	5.6 UJ	NA	NA	NA	5 U	NA	NA	NA
Benzo(a)anthracene	ug/L	- -	- -	- -	9.4	1.1 U	NA	1.1 U	NA	NA	NA	1 U	NA	NA	NA
Benzo(a)pyrene	ug/L	- -	- -	- -	1.62	2.1 U	NA	2.2 U	NA	NA	NA	2 UJ	NA	NA	NA
Benzo(b)fluoranthene	ug/L	- -	- -	- -	1.5	2.1 U	NA	2.2 U	NA	NA	NA	2 UJ	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	- -	- -	- -	0.26	5.3 U	NA	5.6 U	NA	NA	NA	5 UJ	NA	NA	NA
Benzo(k)fluoranthene	ug/L	- -	- -	- -	0.8	5.3 U	NA	5.6 U	NA	NA	NA	5 UJ	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000	1	210,000	17,200,000	1.1 U	NA	1.1 U	NA	NA	NA	1 U	NA	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	- -	25	- -	340	5.3 U	NA	5.6 U	NA	NA	NA	3.19 J	NA	NA	NA
Butylbenzylphthalate	ug/L	- -	67	- -	2,690	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
Caprolactam	ug/L	- -	- -	- -	5,250,000,000	11 U	NA	11 U	NA	NA	NA	10 U	NA	NA	NA
Carbazole	ug/L	- -	10	- -	7,480	11 U	NA	11 U	NA	NA	NA	10 U	NA	NA	NA
Chrysene	ug/L	- -	- -	- -	1.6	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
Dibenzo(a,h)anthracene	ug/L	- -	- -	- -	2.49	2.1 U	NA	2.2 U	NA	NA	NA	2 UJ	NA	NA	NA
Dibenzofuran	ug/L	- -	4	10,000	10,000	4.2 U	NA	4.4 U	NA	NA	NA	4 U	NA	NA	NA
Diethylphthalate	ug/L	- -	110	- -	1,080,000	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
Dimethylphthalate	ug/L	- -	- -	- -	4,190,000	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
Di-n-Butylphthalate	ug/L	- -	9.7	- -	11,200	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
Di-n-Octylphthalate	ug/L	- -	- -	- -	3,000	5.3 U	NA	5.6 U	NA	NA	NA	5 UJ	NA	NA	NA
Fluoranthene	ug/L	- -	1.6	210	206	2.1 U	NA	2.2 U	NA	NA	NA	2 U	NA	NA	NA
Fluorene	ug/L	- -	12	2,000	1,980	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
Hexachlorobenzene	ug/L	- -	0.2	3,000	6,200	1.1 U	NA	1.1 U	NA	NA	NA	1 U	NA	NA	NA
Hexachlorobutadiene	ug/L	- -	0.053	3,200	3,230	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	- -	- -	420	1,800	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
Hexachloroethane	ug/L	- -	6.7	50,000	50,000	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	- -	- -	- -	0.022	2.1 U	NA	2.2 U	NA	NA	NA	2 UJ	NA	NA	NA
Isophorone	ug/L	- -	1,300	- -	12,000,000	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
Methylphenols, Total	ug/L	- -	30	- -	28,000,000	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
Naphthalene	ug/L	- -	11	31,000	31,000	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
Nitrobenzene	ug/L	- -	180	550,000	2,090,000	2.1 U	NA	2.2 U	NA	NA	NA	2 U	NA	NA	NA
N-Nitroso-di-n-propylamine	ug/L	- -	- -	- -	9,890,000	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	- -	- -	- -	35,100	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
Pentachlorophenol	ug/L	- -	2.8	- -	1,850,000	21 U	NA	22 U	NA	NA	NA	20 U	NA	NA	NA
Phenanthrene	ug/L	- -	2	1,000	1,000	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
Phenol	ug/L	- -	450	- -	82,800,000	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
Pyrene	ug/L	- -	- -	140	135	5.3 U	NA	5.6 U	NA	NA	NA	5 U	NA	NA	NA
PCB															
Aroclor-1016	ug/L	- -	- -	- -	- -	0.11 U	NA	0.1 U	NA	NA	NA	0.11 U	NA	NA	NA

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Aroclor-1221	ug/L	- -	- -	- -	- -	0.11 U	NA	0.1 U	NA	NA	NA	0.11 U	NA	NA	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	0.11 U	NA	0.1 U	NA	NA	NA	0.11 U	NA	NA	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	0.11 U	NA	0.1 U	NA	NA	NA	0.11 U	NA	NA	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	0.11 U	NA	0.1 U	NA	NA	NA	0.11 U	NA	NA	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	0.11 U	NA	0.1 U	NA	NA	NA	0.11 U	NA	NA	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	0.11 U	NA	0.1 U	NA	NA	NA	0.11 U	NA	NA	NA
Total PCBs	ug/L	- -	0.2	45	44.7	0.11 U	NA	0.1 U	NA	NA	NA	0.11 U	NA	NA	NA
PCB-Dissolved															
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.11 U	NA	NA	NA	0.1 U	NA	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.11 U	NA	NA	NA	0.1 U	NA	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.11 U	NA	NA	NA	0.1 U	NA	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.11 U	NA	NA	NA	0.1 U	NA	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.11 U	NA	NA	NA	0.1 U	NA	NA	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.11 U	NA	NA	NA	0.1 U	NA	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.11 U	NA	NA	NA	0.1 U	NA	NA	NA
Total PCBs (Dissolved)	ug/L	- -	0.2	45	44.7	0.1 U	NA	0.11 U	NA	NA	NA	0.1 U	NA	NA	NA
Inorganic															
Antimony	ug/L	- -	130	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	ug/L	- -	10	- -	- -	NA	NA	NA	NA	NA	2 U	NA	NA	NA	2 U
Barium	ug/L	- -	1,300	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/L	- -	32	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/L	- -	4.8	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	ug/L	- -	170	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/L	- -	100	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/L	- -	22	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	ug/L	- -	5.2	- -	- -	2.3 J	NA	1.9 J	NA	NA	NA	2.4 J	NA	NA	NA
Lead	ug/L	- -	47	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/L	- -	4,900	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/L	- -	0.0013	56	56	0.2 U	NA	0.2 U	NA	NA	NA	0.2 U	NA	NA	NA
Nickel	ug/L	- -	120	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/L	- -	5	- -	- -	NA	NA	NA	NA	NA	5 U	NA	NA	NA	5 U
Silver	ug/L	- -	0.2	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	ug/L	- -	3.7	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/L	- -	27	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/L	- -	280	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved															
Antimony (Dissolved)	ug/L	- -	130	- -	- -	1.2 U	NA	1.2 U	NA	NA	NA	1.2 U	NA	NA	NA
Arsenic (Dissolved)	ug/L	- -	10	- -	- -	3 J	NA	**22 (GSI (2013))**	NA	NA	NA	3.5 U	NA	NA	NA
Barium (Dissolved)	ug/L	- -	1,300	- -	- -	210 J	NA	170	NA	NA	NA	40	NA	NA	NA
Beryllium (Dissolved)	ug/L	- -	32	- -	- -	0.4 U	NA	0.4 U	NA	NA	NA	0.4 U	NA	NA	NA
Cadmium (Dissolved)	ug/L	- -	4.8	- -	- -	0.2 U	NA	0.2 U	NA	NA	NA	0.2 U	NA	NA	NA
Chromium Total (Dissolved)	ug/L	- -	170	- -	- -	0.6 U	NA	0.93	NA	NA	NA	0.6 U	NA	NA	NA
Cobalt (Dissolved)	ug/L	- -	100	- -	- -	0.57	NA	1.1	NA	NA	NA	0.28	NA	NA	NA
Copper (Dissolved)	ug/L	- -	22	- -	- -	2.9	NA	11	NA	NA	NA	4.9 U	NA	NA	NA
Cyanide (dissolved)	ug/L	- -	5.2	- -	- -	2.5 J	NA	2.2 J	NA	NA	NA	3.1 J	NA	NA	NA
Lead (Dissolved)	ug/L	- -	47	- -	- -	0.4 U	NA	0.4 U	NA	NA	NA	0.4 U	NA	NA	NA
Manganese (Dissolved)	ug/L	- -	4,900	- -	- -	250 J	NA	400 J	NA	NA	NA	160	NA	NA	NA

Table A-1

Priority #1 - AOI 86-1 Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	87-FP2 09/24/01	87-FP2 06/19/02	87-FP3 09/27/01	87-FP3 06/18/02	87-FP3 04/04/03	87-FP3 06/05/13	87-FP5 09/28/01	87-FP5 06/19/02	87-FP5 04/03/03	87-FP5 06/05/13
Mercury (Dissolved)	ug/L	- -	0.0013	- -	- -	0.2 U	NA	0.2 U	NA	NA	NA	0.2 U	NA	NA	NA
Nickel (Dissolved)	ug/L	- -	120	- -	- -	6.9	NA	9.4	NA	NA	NA	2.9	NA	NA	NA
Selenium (Dissolved)	ug/L	- -	5	- -	- -	1.4 U	NA	2.9 U	NA	NA	NA	1.4 U	NA	NA	NA
Silver (Dissolved)	ug/L	- -	0.2	- -	- -	0.4 UJ	NA	0.4 UJ	NA	NA	NA	0.4 U	NA	NA	NA
Thallium (Dissolved)	ug/L	- -	3.7	- -	- -	0.2 U	NA	0.2 U	NA	NA	NA	0.2 U	NA	NA	NA
Vanadium (Dissolved)	ug/L	- -	27	- -	- -	0.8 U	NA	0.8 U	NA	NA	NA	1.2	NA	NA	NA
Zinc (Dissolved)	ug/L	- -	280	- -	- -	8.4	NA	17	NA	NA	NA	11	NA	NA	NA
Field Parameters															
Conductivity Field	mS/cm	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH Field	s.u.	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Parameters-Filtered															
Dissolved Oxygen, Field	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table A-1

Priority #1 - AOI 86-1 Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-86-03 09/20/01	RFI-86-03 06/17/02	RFI-86-04 09/27/01	RFI-86-04 06/17/02	RFI-86-08R 06/20/02	RFI-86-08R 12/18/02	RFI-86-08R 04/03/03	RFI-86-08R 06/05/13
VOC													
1,1,1,2-Tetrachloroethane	ug/L	- -	- -	96,000	1,100,000	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/L	- -	89	1,300,000	1,330,000	3.4	5.6	1 U	1 U	3.6	5.5	8.4	1 U
1,1,2,2-Tetrachloroethane	ug/L	- -	78	77,000	2,970,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	- -	32	170,000	170,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	30 U
1,1,2-Trichloroethane	ug/L	- -	330	110,000	4,420,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	7.3	7.4	1 U	1 U	130 EJ	97	100	12
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	ug/L	- -	- -	18,000	1,900,000	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	- -	99	300,000	300,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	2 U
1,2,4-Trimethylbenzene	ug/L	56,000	17	56,000	55,890	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	- -	- -	1,200	1,230	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U
1,2-Dibromoethane	ug/L	- -	5.7	15,000	4,200,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	ug/L	- -	13	160,000	156,000	1 U	0.96 J	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/L	2,500,000	360	59,000	8,520,000	1 U	1 U	1 U	1 U	2.2	1.5	1.6	1 U
1,2-Dichloropropane	ug/L	550,000	230	36,000	2,800,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/L	- -	45	61,000	61,150	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/L	- -	28	41,000	111,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	ug/L	- -	17	74,000	73,800	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	ug/L	- -	2,200	240,000,000	240,000,000	25 U	25 U	25 U	25 U	25 U	2.8 J	25 U	20 U
2-Hexanone	ug/L	- -	- -	8,700,000	16,000,000	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Methylnaphthalene	ug/L	- -	19	25,000	24,600	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	ug/L	- -	- -	20,000,000	20,000,000	50 U	50 U	50 U	50 U	50 U	50 U	50 U	10 U
Acetone	ug/L	15,000,000	1,700	1,000,000,000	1,000,000,000	25 U	25 U	1.3 J	25 U	25 U	25 U	25 U	20 U
Acrylonitrile	ug/L	6,400,000	2	190,000	75,000,000	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/L	68,000	200	35,000	1,750,000	1 U	1 U	1 U	1 U	5.7	6	4.6	5
Bromobenzene	ug/L	- -	- -	390,000	413,000	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/L	- -	- -	37,000	6,740,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/L	- -	- -	3,100,000	3,100,000	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U
Bromomethane	ug/L	- -	35	9,000	14,500,000	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	2 U
Carbon Disulfide	ug/L	13,000	- -	550,000	1,190,000	5 U	5 U	5 U	5 U	5 U	5 U	6	5 U
Carbon Tetrachloride	ug/L	- -	45	2,400	793,000	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U
Chlorobenzene	ug/L	160,000	25	470,000	472,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/L	110,000	1,100	5,700,000	5,740,000	1 U	1 U	1 U	1 U	**14,000 D (GSI (2013))**	**11,000 D (GSI (2013))**	**5,200 D (GSI (2013))**	1 U
Chloroform	ug/L	- -	350	180,000	7,920,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	ug/L	36,000	- -	45,000	6,340,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	2.7	1 U	1 U	1 U	5.5	4.4	3.7	3
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	ug/L	- -	- -	- -	- -	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U
Dibromochloromethane	ug/L	- -	- -	110,000	2,600,000	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U
Dibromomethane	ug/L	- -	- -	- -	11,000,000	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/L	- -	- -	300,000	300,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Diethyl ether	ug/L	650,000	- -	61,000,000	61,000,000	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/L	43,000	18	170,000	169,000	1 U	1 U	1 U	1 U	3.2	3.5	2.1	1
Hexachloroethane	ug/L	- -	6.7	50,000	50,000	NA	NA	NA	NA	NA	NA	NA	NA

Table A-1

Priority #1 - AOI 86-1 Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-86-03 09/20/01	RFI-86-03 06/17/02	RFI-86-04 09/27/01	RFI-86-04 06/17/02	RFI-86-08R 06/20/02	RFI-86-08R 12/18/02	RFI-86-08R 04/03/03	RFI-86-08R 06/05/13
Iodomethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	ug/L	29,000	28	56,000	56,000	5 U	5 U	5 U	5 U	0.69 J	0.54 J	5 U	1 U
m&p-Xylene	ug/L	- -	- -	- -	- -	2 U	2 U	2 U	2 U	6.4	6.5	3.8	3
Methyl acetate	ug/L	- -	- -	- -	- -	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U
Methyl tert-butyl ether	ug/L	- -	7,100	47,000,000	46,800,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U	20 U
Methylene Chloride	ug/L	- -	1,500	1,400,000	17,000,000	5 U	5 UJ	5 U	5 UJ	5 U	5 U	5 U	5 U
Naphthalene	ug/L	- -	11	31,000	31,000	NA	NA	NA	NA	NA	NA	NA	**34 (GSI (2013))**
n-Butylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	1 U
o-Xylene	ug/L	- -	- -	- -	- -	1 U	0.54 J	1 U	1 U	5.9	6.4	4.1	1 U
p-Isopropyltoluene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/L	140,000	80	310,000	310,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/L	- -	60	170,000	200,000	1 U	1 UJ	1 U	1 UJ	1 U	1 U	1 U	1 U
Tetrahydrofuran	ug/L	60,000	11,000	16,000,000	1,000,000,000	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/L	61,000	270	530,000	526,000	1 U	1 U	1 U	1 U	11	11	8	1 U
trans-1,2-Dichloroethene	ug/L	230,000	1,500	200,000	6,300,000	1 U	1 U	1 U	1 U	15	19	20	8
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/L	- -	200	4,900	1,100,000	7.9	5.3	1 U	1 U	6	6.2	9.7	2
Trichlorofluoromethane	ug/L	- -	- -	1,100,000	1,100,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	ug/L	33,000	13	13,000	2,760,000	1.3	1 U	1 U	1 U	**49 (GSI (2013))**	7.7	11	2
Xylenes (total)	ug/L	70,000	41	190,000	186,000	1 U	0.54 J	1 U	1 U	5.9	6.4	4.1	1 U
SVOC													
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	- -	- -	- -	1,200,000	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	- -	5	- -	800,000	4.2 U	NA	4.1 U	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	- -	11	- -	4,500,000	11 U	NA	10 U	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	- -	380	- -	7,870,000	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	21 UJ	NA	20 UJ	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	- -	- -	- -	270,000	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	- -	- -	- -	6,740	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	- -	18	1,100,000	22,000,000	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	- -	19	25,000	24,600	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	21 U	NA	20 U	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	- -	- -	- -	2,500,000	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	- -	- -	- -	- -	11 UJ	NA	10 UJ	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	- -	0.3	- -	3,110	21 U	NA	20 U	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	21 U	NA	20 U	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	21 U	NA	20 U	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	ug/L	- -	7.4	- -	3,900,000	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA

Table A-1

Priority #1 - AOI 86-1 Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-86-03 09/20/01	RFI-86-03 06/17/02	RFI-86-04 09/27/01	RFI-86-04 06/17/02	RFI-86-08R 06/20/02	RFI-86-08R 12/18/02	RFI-86-08R 04/03/03	RFI-86-08R 06/05/13
4-Chloroaniline	ug/L	- -	- -	- -	- -	21 U	NA	20 U	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	R	NA	5.1 U	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	21 U	NA	20 U	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	21 UJ	NA	20 U	NA	NA	NA	NA	NA
Acenaphthene	ug/L	- -	38	4,200	4,240	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	- -	- -	3,900	3,930	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
Acetophenone	ug/L	- -	- -	6,100,000	6,100,000	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
Anthracene	ug/L	- -	- -	43	43.4	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
Atrazine	ug/L	- -	7.3	- -	70,000	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	5.3 UJ	NA	5.1 U	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	- -	- -	- -	9.4	1.1 U	NA	1 U	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	- -	- -	- -	1.62	2.1 U	NA	2 U	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	- -	- -	- -	1.5	2.1 U	NA	2 U	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	- -	- -	- -	0.26	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	- -	- -	- -	0.8	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000	1	210,000	17,200,000	1.1 U	NA	1 U	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	- -	25	- -	340	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
Butylbenzylphthalate	ug/L	- -	67	- -	2,690	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
Caprolactam	ug/L	- -	- -	- -	5,250,000,000	11 U	NA	10 U	NA	NA	NA	NA	NA
Carbazole	ug/L	- -	10	- -	7,480	11 U	NA	10 U	NA	NA	NA	NA	NA
Chrysene	ug/L	- -	- -	- -	1.6	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/L	- -	- -	- -	2.49	2.1 U	NA	2 U	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	- -	4	10,000	10,000	4.2 U	NA	4.1 U	NA	NA	NA	NA	NA
Diethylphthalate	ug/L	- -	110	- -	1,080,000	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
Dimethylphthalate	ug/L	- -	- -	- -	4,190,000	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
Di-n-Butylphthalate	ug/L	- -	9.7	- -	11,200	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
Di-n-Octylphthalate	ug/L	- -	- -	- -	3,000	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
Fluoranthene	ug/L	- -	1.6	210	206	2.1 U	NA	2 U	NA	NA	NA	NA	NA
Fluorene	ug/L	- -	12	2,000	1,980	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/L	- -	0.2	3,000	6,200	1.1 U	NA	1 U	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	- -	0.053	3,200	3,230	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	- -	- -	420	1,800	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	- -	6.7	50,000	50,000	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	- -	- -	- -	0.022	2.1 U	NA	2 U	NA	NA	NA	NA	NA
Isophorone	ug/L	- -	1,300	- -	12,000,000	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
Methylphenols, Total	ug/L	- -	30	- -	28,000,000	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
Naphthalene	ug/L	- -	11	31,000	31,000	0.874 J	NA	5.1 U	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	- -	180	550,000	2,090,000	2.1 U	NA	2 U	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	ug/L	- -	- -	- -	9,890,000	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	- -	- -	- -	35,100	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	- -	2.8	- -	1,850,000	21 U	NA	20 U	NA	NA	NA	NA	NA
Phenanthrene	ug/L	- -	2	1,000	1,000	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
Phenol	ug/L	- -	450	- -	82,800,000	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
Pyrene	ug/L	- -	- -	140	135	5.3 U	NA	5.1 U	NA	NA	NA	NA	NA
PCB													
Aroclor-1016	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	NA	NA

Table A-1

Priority #1 - AOI 86-1 Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-86-03 09/20/01	RFI-86-03 06/17/02	RFI-86-04 09/27/01	RFI-86-04 06/17/02	RFI-86-08R 06/20/02	RFI-86-08R 12/18/02	RFI-86-08R 04/03/03	RFI-86-08R 06/05/13
Aroclor-1221	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	NA	NA
Total PCBs	ug/L	- -	0.2	45	44.7	0.1 U	NA	0.1 U	NA	NA	NA	NA	NA
PCB-Dissolved													
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	NA	NA
Total PCBs (Dissolved)	ug/L	- -	0.2	45	44.7	0.1 U	NA	0.1 U	NA	NA	NA	NA	NA
Inorganic													
Antimony	ug/L	- -	130	- -	- -	NA	1.2 U	NA	NA	1.2 U	1.2 U	NA	NA
Arsenic	ug/L	- -	10	- -	- -	NA	4.1	NA	NA	**47 (GSI (2013))**	**41 (GSI (2013))**	NA	**29 (GSI (2013))**
Barium	ug/L	- -	1,300	- -	- -	NA	65	NA	NA	260	240 J	NA	NA
Beryllium	ug/L	- -	32	- -	- -	NA	0.4 UJ	NA	NA	0.4 U	0.4 UJ	NA	NA
Cadmium	ug/L	- -	4.8	- -	- -	NA	0.2 U	NA	NA	0.2 U	0.2 UJ	NA	NA
Chromium Total	ug/L	- -	170	- -	- -	NA	0.24 J	NA	NA	0.8	1.8	NA	NA
Cobalt	ug/L	- -	100	- -	- -	NA	3.3	NA	NA	0.56	0.44 J	NA	NA
Copper	ug/L	- -	22	- -	- -	NA	3.3 U	NA	NA	3.3	3.6 J	NA	NA
Cyanide (total)	ug/L	- -	5.2	- -	- -	1.2 J	5 U	1.8 J	NA	5 U	5 U	NA	NA
Lead	ug/L	- -	47	- -	- -	NA	0.5	NA	NA	0.43	0.83 J	NA	NA
Manganese	ug/L	- -	4,900	- -	- -	NA	640 J	NA	NA	250	280 J	NA	NA
Mercury	ug/L	- -	0.0013	56	56	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	NA	NA
Nickel	ug/L	- -	120	- -	- -	NA	11	NA	NA	17	14 J	NA	NA
Selenium	ug/L	- -	5	- -	- -	NA	1.4 U	NA	NA	1.4 U	1.6 U	NA	5 U
Silver	ug/L	- -	0.2	- -	- -	NA	0.4 U	NA	NA	0.4 UJ	0.4 UJ	NA	NA
Thallium	ug/L	- -	3.7	- -	- -	NA	0.2 U	NA	NA	0.14 J	0.14 J	NA	NA
Vanadium	ug/L	- -	27	- -	- -	NA	0.8 U	NA	NA	1.3	1.5	NA	NA
Zinc	ug/L	- -	280	- -	- -	NA	4.9 J	NA	NA	20 UJ	18 J	NA	NA
Inorganic-Dissolved													
Antimony (Dissolved)	ug/L	- -	130	- -	- -	1.2 U	NA	2.9 U	NA	NA	NA	NA	NA
Arsenic (Dissolved)	ug/L	- -	10	- -	- -	2.7	NA	2.1 J	NA	NA	NA	NA	NA
Barium (Dissolved)	ug/L	- -	1,300	- -	- -	150 J	NA	120	NA	NA	NA	NA	NA
Beryllium (Dissolved)	ug/L	- -	32	- -	- -	0.4 U	NA	0.4 U	NA	NA	NA	NA	NA
Cadmium (Dissolved)	ug/L	- -	4.8	- -	- -	0.2 U	NA	0.22	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	ug/L	- -	170	- -	- -	0.78	NA	0.69	NA	NA	NA	NA	NA
Cobalt (Dissolved)	ug/L	- -	100	- -	- -	3.1	NA	0.2 U	NA	NA	NA	NA	NA
Copper (Dissolved)	ug/L	- -	22	- -	- -	1.5	NA	9.9	NA	NA	NA	NA	NA
Cyanide (dissolved)	ug/L	- -	5.2	- -	- -	3.2 J	NA	1.7 J	NA	NA	NA	NA	NA
Lead (Dissolved)	ug/L	- -	47	- -	- -	0.4 U	NA	0.4 U	NA	NA	NA	NA	NA
Manganese (Dissolved)	ug/L	- -	4,900	- -	- -	970	NA	39 J	NA	NA	NA	NA	NA

Table A-1

Priority #1 - AOI 86-1 Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-86-03 09/20/01	RFI-86-03 06/17/02	RFI-86-04 09/27/01	RFI-86-04 06/17/02	RFI-86-08R 06/20/02	RFI-86-08R 12/18/02	RFI-86-08R 04/03/03	RFI-86-08R 06/05/13
Mercury (Dissolved)	ug/L	- -	0.0013	- -	- -	0.2 U	NA	0.2 U	NA	NA	NA	NA	NA
Nickel (Dissolved)	ug/L	- -	120	- -	- -	12	NA	23	NA	NA	NA	NA	NA
Selenium (Dissolved)	ug/L	- -	5	- -	- -	1.4 U	NA	3.6 J	NA	NA	NA	NA	NA
Silver (Dissolved)	ug/L	- -	0.2	- -	- -	**0.74 J (GSI (2013))**	NA	0.4 UJ	NA	NA	NA	NA	NA
Thallium (Dissolved)	ug/L	- -	3.7	- -	- -	0.2 U	NA	0.2 U	NA	NA	NA	NA	NA
Vanadium (Dissolved)	ug/L	- -	27	- -	- -	0.8 U	NA	0.8 U	NA	NA	NA	NA	NA
Zinc (Dissolved)	ug/L	- -	280	- -	- -	6 U	NA	20	NA	NA	NA	NA	NA
Field Parameters													
Conductivity Field	mS/cm	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
pH Field	s.u.	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Field Parameters-Filtered													
Dissolved Oxygen, Field	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA

Table A-2

Priority #1 - AOI 86-1 Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-02 1 - 3 07/31/01	RFI-86-02 7 - 9 07/31/01	RFI-86-03 2 - 4 06/20/01
VOC											
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.039 U	0.037 U [0.037 U]	0.043 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.077 U	0.073 U [0.074 U]	0.086 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	0.17 U	0.16 U [0.16 U]	0.18 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.039 U	0.037 U [0.037 U]	0.043 U
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.039 U	0.037 U [0.037 U]	0.043 U
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.039 U	0.037 U [0.037 U]	0.043 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.17 U	0.16 U [0.16 U]	0.18 UJ
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.17 U	0.16 U [0.16 U]	0.18 UJ
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.17 U	0.16 U [0.16 U]	0.18 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.077 U	0.073 U [0.074 U]	0.086 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.039 U	0.037 U [0.037 U]	0.043 U
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.039 U	0.037 U [0.037 U]	0.043 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.077 U	0.073 U [0.074 U]	0.086 U
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.077 U	0.073 U [0.074 U]	0.086 U
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.28 U	0.26 U [0.27 U]	0.31 U
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	0.28 U	0.26 U [0.27 U]	0.31 U
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	0.28 U	0.26 U [0.27 U]	0.17 J
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	0.28 U	0.26 U [0.27 U]	0.31 U
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.039 U	0.037 U [0.037 U]	0.043 U
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.077 U	0.073 U [0.074 U]	0.086 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.077 U	0.073 U [0.074 U]	0.086 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.17 UJ	0.16 U [0.16 UJ]	0.18 U
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.17 U	0.16 U [0.16 U]	0.18 U
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.039 U	0.037 U [0.037 U]	0.043 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.039 U	0.037 U [0.037 U]	0.043 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.17 U	0.16 UJ [0.16 U]	0.18 U
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.039 U	0.037 U [0.037 U]	0.043 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.17 U	0.16 U [0.16 U]	0.18 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.039 U	0.037 U [0.037 U]	0.043 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.039 U	0.037 U [0.037 U]	0.043 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.16 U [0.16 U]	0.18 U
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.077 U	0.073 U [0.074 U]	0.086 U
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.077 U	0.073 U [0.074 U]	0.086 U
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.039 U	0.028 J [0.039]	0.065
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.17 U	0.031 J [0.042 J]	0.18 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.077 U	0.029 J [0.035 J]	0.22
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.16 U [0.16 U]	0.037 J
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.28 U	0.26 U [0.27 U]	0.31 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.16 U [0.033 J]	0.18 U
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.17 UJ	0.16 U [0.16 UJ]	0.18 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.039 U	0.037 [0.047]	0.041 J
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.039 U	0.037 U [0.037 U]	0.043 U
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.039 U	0.037 U [0.037 U]	0.06
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.039 U	0.037 U [0.037 U]	0.11
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.039 U	0.037 U [0.037 U]	0.043 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.039 U	0.037 U [0.037 U]	0.043 U
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.039 U	0.037 U [0.037 U]	0.2
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.077 U	0.073 U [0.074 U]	0.086 U
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.039 U	0.037 U [0.037 U]	0.043 U

Table A-2

Priority #1 - AOI 86-1 Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-02 1 - 3 07/31/01	RFI-86-02 7 - 9 07/31/01	RFI-86-03 2 - 4 06/20/01
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	0.039 U	0.037 [0.047]	0.041 J
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.9 U [0.89 U]	0.21 UJ
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.9 U [0.89 U]	0.21 U
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.19 U	0.9 U [0.89 U]	0.21 U
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.19 U	0.9 U [0.89 U]	0.21 U
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.19 U	0.9 U [0.89 U]	0.21 U
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.19 U	0.9 U [0.89 U]	0.21 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 U	3.5 U [3.5 U]	0.82 U
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.74 U	3.5 U [3.5 U]	0.82 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.9 U [0.89 U]	0.21 U
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.19 U	0.9 U [0.89 U]	0.21 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.19 U	0.9 U [0.89 U]	0.21 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.19 U	**7.35 (GSIP (2013)) [7.41 (GSIP (2013))]**	0.21 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.9 U [0.89 U]	0.21 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 U	3.5 U [3.5 U]	0.82 U
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.19 U	0.9 U [0.89 U]	0.21 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.37 UJ	1.8 UJ [1.8 UJ]	0.42 U
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	0.74 U	3.5 UJ [3.5 UJ]	0.82 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 U	3.5 U [3.5 U]	0.82 UJ
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	0.74 U	3.5 U [3.5 U]	0.82 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.9 U [0.89 U]	0.21 U
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.19 U	0.9 U [0.89 U]	0.21 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 U	3.5 U [3.5 U]	0.82 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 U	3.5 U [3.5 U]	0.82 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 UJ	3.5 U [3.5 UJ]	0.82 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 U	3.5 U [3.5 U]	0.82 UJ
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.19 U	0.9 U [0.89 U]	0.21 U
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.19 U	0.9 U [0.89 U]	0.21 U
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	0.19 U	0.9 U [0.89 U]	0.21 U
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.19 U	0.9 U [0.89 U]	0.21 U
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	0.19 U	0.9 U [0.89 U]	0.21 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 UJ	0.9 UJ [0.89 UJ]	0.21 UJ
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.19 U	0.9 UJ [0.89 UJ]	0.21 U
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	0.19 U	0.9 UJ [0.89 UJ]	0.21 U
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.19 U	0.9 UJ [0.89 UJ]	0.21 U
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	0.19 U	0.9 UJ [0.89 UJ]	0.21 U
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	0.19 U	0.9 UJ [0.89 UJ]	0.21 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.9 U [0.89 U]	0.21 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.036 U	0.17 U [0.17 U]	0.04 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.19 U	0.9 UJ [0.89 UJ]	0.21 U
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	0.19 U	0.9 UJ [0.89 UJ]	0.21 U
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	0.19 UJ	0.9 UJ [0.89 UJ]	0.21 U
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	0.19 UJ	0.9 UJ [0.89 UJ]	0.21 U
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	0.19 U	1.28 J [1.05 J]	0.21 U
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	0.19 U	0.9 UJ [0.89 UJ]	0.21 U
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.19 U	0.9 U [0.89 U]	0.21 U
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.19 U	0.9 U [0.89 U]	0.21 U
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.19 U	0.9 U [0.89 U]	0.21 U
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.19 U	0.9 U [0.89 U]	0.21 U

Table A-2

Priority #1 - AOI 86-1 Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-02 1 - 3 07/31/01	RFI-86-02 7 - 9 07/31/01	RFI-86-03 2 - 4 06/20/01
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.19 U	0.9 UJ [0.89 UJ]	0.21 U
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	0.19 U	0.9 U [0.89 U]	0.21 U
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.19 U	0.9 U [0.89 U]	0.21 U
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.19 U	0.9 U [0.89 U]	0.21 UJ
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.19 U	0.9 U [0.89 U]	0.21 U
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.19 U	0.9 U [0.89 U]	0.21 UJ
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.19 U	0.9 U [0.89 U]	0.21 U
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.19 U	0.9 UJ [0.89 UJ]	0.21 U
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.19 U	0.9 U [0.89 U]	0.21 U
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.19 U	0.9 U [0.89 U]	0.21 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.19 U	**1.85 (GSIP (2013)) [1.79 (GSIP (2013))]**	0.21 U
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.074 U	0.35 U [0.35 U]	0.082 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.19 U	0.9 U [0.89 U]	0.21 U
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.19 U	0.9 U [0.89 U]	0.21 U
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	0.74 U	3.5 U [3.5 U]	0.82 U
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	0.19 U	0.9 U [0.89 U]	0.21 U
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.19 U	0.9 U [0.89 U]	0.21 U
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	0.19 U	0.9 UJ [0.89 UJ]	0.21 U
PCB											
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.037 U [0.037 U]	0.043 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.037 U [0.037 U]	0.043 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.037 U [0.037 U]	0.043 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.037 U [0.037 U]	0.043 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.037 U [0.037 U]	0.043 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.037 U [0.037 U]	0.043 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.037 U [0.037 U]	0.043 U
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.039 U	0.037 U [0.037 U]	0.043 U
Inorganic											
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	0.25 UJ	0.23 UJ [0.23 UJ]	0.056 J
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	2.7	3.5 [2.9]	**9.8 (GSIP (2013),SDBL (2013))**
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	9.2 J	8.4 J [5.6 J]	**160 (SDBL (2013))**
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	0.13 J	0.095 J [0.088 J]	0.98
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	0.054	0.094 [0.063]	0.094
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	4.8	7 [4.7]	**30 (SDBL (2013))**
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	**2.6 (GSIP (2013))**	**2.3 (GSIP (2013)) [1.9]**	**10 (GSIP (2013),SDBL (2013))**
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	4.5	5.2 [4.1]	19 J
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	0.2 U	0.2 U [0.2 U]	0.044 J
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	2.8	6 [3.6]	14 J
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	80 J	**120 J (GSIP (2013)) [85 J]**	**400 (GSIP (2013))**
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	0.077 U	0.074 U [0.071 U]	0.0428 J
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	5.6	6.4 [5.3]	**28 (SDBL (2013))**
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	**0.41 J (GSIP (2013))**	0.33 J [0.32 J]	0.19 J
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	0.023 J	0.022 J [0.024 J]	**0.21 J (GSIP (2013))**
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.047 J	0.072 J [0.046 J]	0.23 J
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	10	12 [8.6]	48
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	19	25 [16]	**60 (SDBL (2013))**
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	909,000	945,000 [951,000]	815,000

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VOC											
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.05	0.04 U	0.04 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.083 U	0.079 UJ	0.081 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	0.18 U	0.17 U	0.17 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.042 U	0.04 U	0.04 U
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.042 U	0.04 U	0.04 U
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.042 U	0.04 U	0.04 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.18 UJ	0.17 UJ	0.17 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.18 UJ	0.17 U	0.17 U
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.18 U	0.17 U	0.17 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.083 U	0.079 U	0.081 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.042 U	0.04 UJ	0.04 U
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.042 U	0.04 U	0.04 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.083 U	0.079 U	0.081 U
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.083 U	0.079 U	0.081 U
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.3 U	0.28 UJ	0.29 U
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	0.3 U	0.28 UJ	0.29 U
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	0.3 U	0.28 UJ	0.29 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	0.3 U	1.7 UJ	0.67 UJ
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.042 U	0.04 U	0.04 U
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.083 U	0.079 U	0.081 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.083 U	0.079 U	0.081 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.18 U	0.17 U	0.17 U
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.18 U	0.17 U	0.17 U
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.042 U	0.04 U	0.04 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.042 U	0.04 U	0.04 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.18 U	0.17 U	0.17 U
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.042 U	0.04 U	0.04 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.18 U	0.17 U	0.17 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.042 U	0.04 U	0.04 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.042 U	0.04 U	0.04 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.17 U	0.17 U
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.083 U	0.079 U	0.081 U
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.083 U	0.079 U	0.081 U
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.042 U	0.04 U	0.04 U
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.18 U	0.17 U	0.17 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.083 U	0.082	0.034 J
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.17 UJ	0.03 J
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.3 U	0.28 U	0.29 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.12 J	0.038 J
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.18 U	0.17 UJ	0.17 UJ
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.042 U	0.053	0.04 U
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.042 U	0.04 U	0.04 U
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.055	0.04 U	0.04 U
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.042 U	0.087	0.04 U
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.042 U	0.04 U	0.04 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.042 U	0.04 UJ	0.04 U
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.15	0.04 U	0.04 U
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.083 U	0.079 U	0.081 U
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.042 U	0.04 U	0.04 U

Table A-2

Priority #1 - AOI 86-1 Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-03 4 - 6 06/20/01	RFI-86-04 1 - 3 07/24/01	RFI-86-04 3 - 5 07/24/01
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	0.042 U	0.053	0.04 U
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	0.19 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	0.19 U
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.2 U	0.19 U	0.19 U
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.2 U	0.19 U	0.19 U
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.2 U	0.19 U	0.19 U
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.2 U	0.19 U	0.19 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.8 U	0.75 UJ	0.76 UJ
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.8 U	0.75 U	0.76 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	0.19 U
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.2 U	0.19 U	0.19 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.2 U	0.19 U	0.19 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.2 U	0.19 U	0.19 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	0.19 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.8 U	0.75 U	0.76 U
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.2 U	0.19 U	0.19 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.41 U	0.38 UJ	0.39 UJ
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	0.8 U	0.75 UJ	0.76 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.8 U	0.75 U	0.76 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	0.8 U	0.75 U	0.76 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	0.19 U
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.2 U	0.19 U	0.19 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.8 U	0.75 U	0.76 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.8 U	0.75 U	0.76 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.8 U	0.75 U	0.76 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.8 U	0.75 U	0.76 U
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.2 U	0.19 U	0.19 U
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.2 U	0.0562 J	0.19 U
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	0.2 U	0.19 U	0.19 U
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.2 U	0.0483 J	0.19 U
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	0.2 U	0.19 U	0.19 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 UJ	0.19 U	0.19 U
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.2 U	0.109 J	0.19 U
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	0.2 U	0.177 J	0.19 U
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.132 J	0.403 J	0.19 U
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	0.2 UJ	0.19 UJ	0.19 U
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	0.2 U	0.212 J	0.19 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	0.19 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.039 U	0.037 U	0.038 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.2 U	0.19 UJ	0.19 U
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	0.2 U	0.19 UJ	0.19 U
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	0.2 U	0.19 UJ	0.19 UJ
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	0.2 U	0.19 U	0.19 U
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	0.2 U	0.147 J	0.19 U
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	0.2 UJ	0.19 UJ	0.19 U
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.2 U	0.19 U	0.19 U
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.2 U	0.19 U	0.177 J
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.2 U	0.19 U	0.19 U
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.2 U	0.19 U	0.19 U

Table A-2

Priority #1 - AOI 86-1 Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-03 4 - 6 06/20/01	RFI-86-04 1 - 3 07/24/01	RFI-86-04 3 - 5 07/24/01
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.2 U	0.19 UJ	0.19 U
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	0.2 U	0.196 J	0.0384 J
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.2 U	0.19 U	0.19 U
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.2 U	0.19 U	0.19 U
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.2 U	0.19 U	0.19 U
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.2 U	0.19 U	0.19 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.2 U	0.19 U	0.19 U
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.2 UJ	0.19 UJ	0.19 U
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.2 U	0.19 U	0.19 U
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.2 U	0.19 U	0.19 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.2 U	0.19 U	0.19 U
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.08 U	0.075 U	0.076 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.2 U	0.19 U	0.19 U
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.2 U	0.19 U	0.19 U
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	0.8 U	0.75 U	0.76 U
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	0.2 U	0.143 J	0.19 U
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.2 U	0.19 U	0.19 U
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	0.2 U	0.266 J	0.19 U
PCB											
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U	0.039 U	0.04 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U	0.039 U	0.04 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U	0.039 U	0.04 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U	0.039 U	0.04 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U	0.039 U	0.04 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U	0.041	0.04 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U	0.022 J	0.04 U
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.042 U	0.063 J	0.04 U
Inorganic											
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	0.072 J	1.2 U	1 U
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	**34 (GSIP (2013),SDBL (2013))**	4.5	4.5
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	14	**77 (SDBL (2013))**	**98 (SDBL (2013))**
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	0.14	0.29	0.15
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	0.14	1.1	0.32
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	8.5	**19 (SDBL (2013))**	**20 (SDBL (2013))**
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	**3.6 (GSIP (2013))**	**4 (GSIP (2013))**	**4.2 (GSIP (2013))**
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	8.1 J	**460 J (GSIP (2013),SDBL (2013))**	**160 J (GSIP (2013),SDBL (2013))**
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	0.022 J	0.066 J	0.092 J
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	4.7 J	**630 J (SDBL (2013))**	**460 J (SDBL (2013))**
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	**130 (GSIP (2013))**	**270 J (GSIP (2013))**	**280 J (GSIP (2013))**
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	0.084 U	0.0405 J	0.0277 J
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	8.6	16	**23 (SDBL (2013))**
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	0.28 J	0.63 UJ	0.33 UJ
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	0.08 J	**0.17 J (GSIP (2013))**	0.077 J
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.055 J	0.16 J	0.1 J
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	13	15	9.3
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	29	**370 (GSIP (2013),SDBL (2013))**	**160 (SDBL (2013))**
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	837,000	889,000	877,000

Table A-2

Priority #1 - AOI 86-1 Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-08 0.6 - 2.6 07/20/01	RFI-86-08 8.6 - 10.6 07/20/01	RFI-86-08 10.6 - 12.6 07/20/01
VOC											
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	1.5	0.77	0.044 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.076 U	0.089 U	0.088 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	0.16 U	0.19 U	0.19 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.038 U	0.045 U	0.044 U
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.039	0.098	0.044 U
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.038 U	0.045 U	0.044 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.16 U	0.19 U	0.19 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.16 U	0.19 U	0.19 U
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.16 U	0.19 U	0.19 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.076 U	0.089 U	0.088 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.038 U	0.045 U	0.044 U
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.038 U	0.045 U	0.044 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.076 U	0.089 U	0.088 U
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.076 U	0.089 U	0.088 U
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.27 U	0.32 U	0.31 UJ
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	0.27 U	0.32 U	0.31 U
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	0.27 U	0.32 U	0.31 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	0.27 UJ	0.32 UJ	0.31 UJ
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.08	0.045 U	0.044 U
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.076 U	0.089 U	0.088 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.076 U	0.089 U	0.088 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.16 U	0.19 U	0.19 U
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.16 U	0.19 U	0.19 U
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.038 U	0.045 U	0.044 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.038 U	0.045 U	0.044 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.16 U	0.19 U	0.18 J
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.038 U	0.045 U	0.044 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.16 U	0.19 U	0.19 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.038 U	0.097	0.044 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.045 U	0.044 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.16 UJ	0.19 UJ	0.19 U
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.076 U	0.089 U	0.088 U
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.076 U	0.089 U	0.088 U
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.035 J	0.045 U	0.044 U
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.16 U	0.19 U	0.19 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.16	0.089 U	0.088 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.16 U	0.19 U	0.19 UJ
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.27 U	0.32 U	0.31 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.36	0.05 J	0.19 U
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.16 U	0.19 U	0.19 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.13	0.045 U	0.044 U
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.038 U	0.045 U	0.044 U
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.11 J	0.045 U	0.044 U
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.11	0.045 U	0.044 U
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.038 U	0.045 U	0.044 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.045 U	0.044 U
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	**5.5 D (GSIP (2013),NSVIA (2013))**	**3.3 (NSVIA (2013))**	0.044 U
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.076 U	0.089 U	0.088 U
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.038 U	0.045 U	0.044 U

Table A-2

Priority #1 - AOI 86-1 Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-08 0.6 - 2.6 07/20/01	RFI-86-08 8.6 - 10.6 07/20/01	RFI-86-08 10.6 - 12.6 07/20/01
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	0.13	0.045 U	0.044 U
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.22 U	0.19 J
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.22 UJ	0.21 U
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.19 U	0.22 U	0.21 U
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.19 U	0.22 U	0.21 U
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.19 U	0.22 U	0.21 U
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.19 U	0.22 U	0.21 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 UJ	0.85 U	0.83 U
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.74 U	0.85 U	0.83 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.22 U	0.21 U
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.19 U	0.22 U	0.21 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.19 U	0.22 UJ	0.21 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.131 J	0.22 U	0.21 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.22 UJ	0.21 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 U	0.85 U	0.83 U
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.19 U	0.22 U	0.21 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.37 UJ	0.43 UJ	0.42 UJ
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	0.74 U	0.85 U	0.83 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 U	0.85 U	0.83 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	0.74 U	0.85 U	0.83 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.22 U	0.21 U
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.19 U	0.22 U	0.21 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 U	0.85 U	0.83 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 UJ	0.85 UJ	0.83 UJ
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 U	0.85 U	0.83 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 U	0.85 U	0.83 U
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.19 U	0.22 U	0.21 U
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.116 J	0.22 U	0.21 U
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	0.19 U	0.22 UJ	0.21 U
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.168 J	0.22 U	0.21 U
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	0.19 U	0.22 U	0.21 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 UJ	0.22 UJ	0.21 UJ
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	1.31	0.22 U	0.21 U
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	1.7	0.22 U	0.21 U
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	1.47	0.22 U	0.21 U
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	1.08 J	0.22 U	0.21 U
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	1.23	0.22 U	0.21 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.22 U	0.21 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.036 U	0.042 UJ	0.041 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.151 J	0.22 U	0.21 U
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	0.19 U	0.22 U	0.21 U
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	0.19 U	0.22 U	0.21 U
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	0.0683 J	0.22 U	0.21 U
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	1.33	0.22 U	0.21 U
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	0.19 U	0.22 U	0.21 U
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.0665 J	0.22 U	0.21 U
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.19 U	0.22 U	0.21 U
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.19 U	0.22 U	0.21 U
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.19 U	0.22 U	0.21 U

Table A-2

Priority #1 - AOI 86-1 Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-08 0.6 - 2.6 07/20/01	RFI-86-08 8.6 - 10.6 07/20/01	RFI-86-08 10.6 - 12.6 07/20/01
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.19 U	0.22 U	0.21 U
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	1.76	0.22 U	0.21 U
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.0422 J	0.22 U	0.21 U
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.19 U	0.22 U	0.21 U
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.19 U	0.22 U	0.21 U
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.19 U	0.22 U	0.21 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.19 U	0.22 UJ	0.21 U
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	1.02	0.22 U	0.21 U
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.19 U	0.22 U	0.21 U
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.19 U	0.22 U	0.21 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.0929 J	0.22 U	0.21 U
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.074 U	0.085 U	0.083 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.19 U	0.22 UJ	0.21 U
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.19 U	0.22 U	0.21 U
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	0.74 U	0.85 U	0.83 U
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	0.786	0.22 U	0.21 U
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.19 U	0.22 UJ	0.21 U
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	1.69	0.22 U	0.21 U
PCB											
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.045 U	0.043 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.045 U	0.043 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.045 U	0.043 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.045 U	0.043 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.045 U	0.043 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.045 U	0.043 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.045 U	0.043 U
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.039 U	0.045 U	0.043 U
Inorganic											
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	0.074 J	0.29 UJ	0.23 UJ
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	**8.4 (GSIP (2013),SDBL (2013))**	**12 (GSIP (2013),SDBL (2013))**	**9.5 (GSIP (2013),SDBL (2013))**
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	47 J	68 J	66 J
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	0.87	1.3	0.86
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	0.59	0.43	0.15
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	**25 J (SDBL (2013))**	**21 J (SDBL (2013))**	**22 J (SDBL (2013))**
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	**12 (GSIP (2013),SDBL (2013))**	**8.8 (GSIP (2013),SDBL (2013))**	**8.4 (GSIP (2013),SDBL (2013))**
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	**80 J (SDBL (2013))**	**87 J (SDBL (2013))**	18 J
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	0.052 J	0.087 J	0.013 J
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	**170 J (SDBL (2013))**	**99 J (SDBL (2013))**	14 J
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	**370 J (GSIP (2013))**	**820 J (GSIP (2013),SDBL (2013))**	**410 J (GSIP (2013))**
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	**0.383 (GSIP (2013),SDBL (2013))**	0.0341 J	0.084 U
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	**50 (SDBL (2013))**	**150 (GSIP (2013),SDBL (2013))**	**23 (SDBL (2013))**
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	**0.65 (GSIP (2013),SDBL (2013))**	0.47 U	**0.66 (GSIP (2013),SDBL (2013))**
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	0.079 J	**0.11 J (GSIP (2013))**	0.059 J
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.11 J	0.31	0.2 J
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	18	23	38
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	**87 J (SDBL (2013))**	**110 J (SDBL (2013))**	**55 J (SDBL (2013))**
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	907,000	785,000	808,000

Table A-3

Priority #1 - AOI 86-1 Fuel Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	RFI-85-02 08/21/01	RFI-86-02 06/19/03	RFI-86-02 09/15/03	RFI-86-03 12/20/02
VOC					
1,1,1-Trichloroethane	mg/kg	0.25 U	0.12 U	0.12 U	11
1,1,2,2-Tetrachloroethane	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	1.3 U	0.62 U	0.62 U	3.1 U
1,1,2-Trichloroethane	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
1,1-Dichloroethane	mg/kg	0.25 U	0.12 U	0.12 U	4.5
1,1-Dichloroethene	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
1,2,4-Trichlorobenzene	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
1,2-Dibromo-3-chloropropane	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
1,2-Dibromoethane	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
1,2-Dichlorobenzene	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
1,2-Dichloroethane	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
1,2-Dichloropropane	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
1,3-Dichlorobenzene	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
1,4-Dichlorobenzene	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
2-Butanone	mg/kg	1.3 UJ	0.62 U	0.62 UJ	3.1 U
2-Hexanone	mg/kg	1.3 U	0.62 U	0.62 U	3.1 U
4-Methyl-2-pentanone	mg/kg	1.3 U	0.62 U	0.62 U	3.1 U
Acetone	mg/kg	1.3 UJ	0.62 U	0.62 UJ	3.1 U
Benzene	mg/kg	0.25 U	0.089 J	0.07 J	0.63 U
Bromodichloromethane	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
Bromoform	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
Bromomethane	mg/kg	0.25 U	0.12 U	0.12 UJ	0.63 U
Carbon Disulfide	mg/kg	0.25 U	0.12 U	0.12 UJ	0.63 U
Carbon Tetrachloride	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
Chlorobenzene	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
Chloroethane	mg/kg	0.25 UJ	0.12 U	0.12 U	0.63 U
Chloroform	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
Chloromethane	mg/kg	0.25 UJ	0.12 U	0.12 UJ	0.63 U
cis-1,2-Dichloroethene	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
cis-1,3-Dichloropropene	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
Cyclohexane	mg/kg	1.3 UJ	0.089 J	0.62 U	3.1 U
Dibromochloromethane	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
Dichlorodifluoromethane	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
Ethylbenzene	mg/kg	0.42	0.53	0.45	1.1
Isopropylbenzene	mg/kg	0.41	0.61	0.51	1.6 J
m&p-Xylene	mg/kg	0.43 J	0.46	0.39	2.3
Methyl acetate	mg/kg	1.3 UJ	0.62 U	0.62 UJ	0.46 J
Methyl tert-butyl ether	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U

Table A-3

Priority #1 - AOI 86-1 Fuel Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	RFI-85-02 08/21/01	RFI-86-02 06/19/03	RFI-86-02 09/15/03	RFI-86-03 12/20/02
Methylcyclohexane	mg/kg	0.36 J	0.75	0.62 J	7
Methylene Chloride	mg/kg	0.15 J	0.62 U	0.25 J	3.1 U
o-Xylene	mg/kg	0.58	0.75	0.59	5.3 J
Styrene	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
Tetrachloroethene	mg/kg	0.25 U	0.12 U	0.12 U	0.36 J
Toluene	mg/kg	0.25 U	0.11 J	0.072 J	0.32 J
trans-1,2-Dichloroethene	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
trans-1,3-Dichloropropene	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
Trichloroethene	mg/kg	0.25 U	0.12 U	0.12 U	0.32 J
Trichlorofluoromethane	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
Vinyl Chloride	mg/kg	0.25 U	0.12 U	0.12 U	0.63 U
Xylenes (total)	mg/kg	0.58	0.75	0.59	5.3 J
SVOC					
1,1'-Biphenyl	mg/kg	50 U	490 U	68 J	500 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	50 U	490 U	500 U	500 U
2,4,5-Trichlorophenol	mg/kg	50 U	490 U	500 U	500 U
2,4,6-Trichlorophenol	mg/kg	50 U	490 U	500 U	500 U
2,4-Dichlorophenol	mg/kg	50 U	490 U	500 U	500 U
2,4-Dimethylphenol	mg/kg	50 U	490 U	500 U	500 U
2,4-Dinitrophenol	mg/kg	200 U	2,000 U	2,000 U	2,000 U
2,4-Dinitrotoluene	mg/kg	50 U	490 U	500 U	500 U
2,6-Dinitrotoluene	mg/kg	50 U	490 U	500 U	500 U
2-Chloronaphthalene	mg/kg	50 U	490 U	500 U	500 U
2-Chlorophenol	mg/kg	50 U	490 U	500 U	500 U
2-Methylnaphthalene	mg/kg	60 J	110 J	260 J	190 J
2-Methylphenol	mg/kg	50 U	490 U	500 U	500 U
2-Nitroaniline	mg/kg	200 U	2,000 U	2,000 U	2,000 U
2-Nitrophenol	mg/kg	50 U	490 U	500 U	500 U
3&4-Methylphenol	mg/kg	100 UJ	980 UJ	1,000 UJ	1,000 UJ
3,3'-Dichlorobenzidine	mg/kg	200 U	2,000 U	2,000 U	2,000 U
3-Nitroaniline	mg/kg	200 U	2,000 U	2,000 U	2,000 U
4,6-Dinitro-2-methylphenol	mg/kg	200 U	2,000 U	2,000 U	2,000 U
4-Bromophenyl-phenylether	mg/kg	50 U	490 U	500 U	500 U
4-Chloro-3-Methylphenol	mg/kg	50 U	490 U	500 U	500 U
4-Chloroaniline	mg/kg	200 U	2,000 U	2,000 U	2,000 U
4-Chlorophenyl-phenylether	mg/kg	50 U	490 U	500 U	500 U
4-Nitroaniline	mg/kg	200 U	2,000 U	2,000 U	2,000 U
4-Nitrophenol	mg/kg	200 U	2,000 U	2,000 U	2,000 U
Acenaphthene	mg/kg	50 U	490 U	50 J	500 U

Table A-3

Priority #1 - AOI 86-1 Fuel Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	RFI-85-02 08/21/01	RFI-86-02 06/19/03	RFI-86-02 09/15/03	RFI-86-03 12/20/02
Acenaphthylene	mg/kg	50 U	490 U	500 U	500 U
Acetophenone	mg/kg	50 U	490 U	500 U	500 U
Anthracene	mg/kg	50 U	490 U	500 U	500 U
Atrazine	mg/kg	50 U	490 U	500 U	500 U
Benzaldehyde	mg/kg	50 U	490 UJ	500 U	500 UJ
Benzo(a)anthracene	mg/kg	50 U	490 U	500 U	500 U
Benzo(a)pyrene	mg/kg	50 UJ	2,500 U	500 U	500 U
Benzo(b)fluoranthene	mg/kg	50 UJ	2,500 U	500 U	500 U
Benzo(g,h,i)perylene	mg/kg	50 UJ	2,500 U	500 UJ	500 U
Benzo(k)fluoranthene	mg/kg	50 UJ	2,500 U	500 U	500 U
bis(2-Chloroethoxy)methane	mg/kg	50 U	490 U	36 J	500 U
bis(2-Chloroethyl)ether	mg/kg	50 U	490 U	500 U	500 U
bis(2-Ethylhexyl)phthalate	mg/kg	50 U	490 U	500 U	500 U
Butylbenzylphthalate	mg/kg	50 U	490 U	500 U	500 U
Caprolactam	mg/kg	50 U	490 U	500 U	500 U
Carbazole	mg/kg	50 U	490 U	500 U	500 U
Chrysene	mg/kg	13 J	490 U	500 U	500 U
Dibenzo(a,h)anthracene	mg/kg	50 UJ	2,500 U	500 UJ	500 U
Dibenzofuran	mg/kg	50 U	490 U	500 U	500 U
Diethylphthalate	mg/kg	50 U	490 U	500 U	500 U
Dimethylphthalate	mg/kg	50 U	490 U	500 U	500 U
Di-n-Butylphthalate	mg/kg	50 U	490 U	500 U	500 U
Di-n-Octylphthalate	mg/kg	50 UJ	2,500 U	500 U	500 U
Fluoranthene	mg/kg	50 U	490 U	500 U	500 U
Fluorene	mg/kg	20 J	490 U	100 J	500 U
Hexachlorobenzene	mg/kg	50 U	490 U	500 U	500 U
Hexachlorobutadiene	mg/kg	50 U	490 U	500 U	500 U
Hexachlorocyclopentadiene	mg/kg	50 U	490 U	500 U	500 U
Hexachloroethane	mg/kg	50 U	490 U	500 U	500 U
Indeno(1,2,3-cd)pyrene	mg/kg	50 UJ	2,500 U	500 U	500 U
Isophorone	mg/kg	50 U	490 U	500 U	500 U
Methylphenols, Total	mg/kg	50 U	490 U	500 U	500 U
Naphthalene	mg/kg	16 J	490 U	500 U	500 U
Nitrobenzene	mg/kg	50 U	490 U	500 U	500 U
N-Nitroso-di-n-propylamine	mg/kg	50 U	490 U	500 U	500 U
N-Nitrosodiphenylamine	mg/kg	50 U	490 U	500 U	500 U
Pentachlorophenol	mg/kg	200 U	2,000 U	2,000 U	2,000 U
Phenanthrene	mg/kg	47 J	81 J	250 J	500 U
Phenol	mg/kg	50 U	490 U	500 U	500 U

Table A-3

Priority #1 - AOI 86-1 Fuel Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	RFI-85-02 08/21/01	RFI-86-02 06/19/03	RFI-86-02 09/15/03	RFI-86-03 12/20/02
Pyrene	mg/kg	11 J	490 U	500 U	500 U
PCB					
Aroclor-1016	mg/kg	1 U	0.99 U	0.97 U	1 U
Aroclor-1221	mg/kg	1 U	0.99 U	0.97 U	1 U
Aroclor-1232	mg/kg	1 U	0.99 U	0.97 U	1 U
Aroclor-1242	mg/kg	1 U	0.99 U	0.97 U	1 U
Aroclor-1248	mg/kg	1 U	0.99 U	0.97 U	1 U
Aroclor-1254	mg/kg	0.82 J	0.56 J	0.56 J	4.6
Aroclor-1260	mg/kg	0.27 J	0.99 U	0.97 U	1 U
Total PCBs	mg/kg	1.09 J	0.56 J	0.56 J	4.6
Inorganic					
Antimony	mg/kg	0.75 U	0.95 U	1.8 U	4.6 J
Arsenic	mg/kg	1.4 J	0.71 J	1.4	2.7 J
Barium	mg/kg	0.51 J	0.36 J	0.46 J	0.46 J
Beryllium	mg/kg	0.38 U	0.48 U	0.28 J	0.19 U
Cadmium	mg/kg	0.19 U	0.24 U	0.45 U	0.024 J
Chromium Total	mg/kg	4.3 J	2.6 J	2.8	7.2 J
Cobalt	mg/kg	0.75 U	0.95 U	0.19 J	0.083 J
Copper	mg/kg	1.4 UJ	0.69 J	4.2	3.9 J
Cyanide (total)	mg/kg	0.2 U	0.2 U	0.2 UJ	0.89 J
Lead	mg/kg	0.57 J	0.18 J	0.42 J	1.6 J
Manganese	mg/kg	0.43 J	0.24 J	0.23 J	0.22 J
Mercury	mg/kg	0.02 U	0.019 U	0.019 UJ	0.019 UJ
Nickel	mg/kg	0.75 U	0.25 J	1.8 U	0.72
Selenium	mg/kg	0.28 J	0.48 U	0.89 J	0.6 J
Silver	mg/kg	0.33 J	0.094 J	1.8 U	0.063 J
Thallium	mg/kg	0.75 U	0.95 U	1.8 U	0.38 U
Vanadium	mg/kg	0.92 J	1.4	2.6	1.2 J
Zinc	mg/kg	3.1 U	2.2 J	4.2 J	2
Miscellaneous					
Interfacial Tension	dynes/cm	9.6	23	21	16
Specific gravity	sg	0.86	0.90	0.90	0.87
Viscosity	cp	85.6	59.8	18.1	NA

Table B-1

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	30-120 09/25/01	43-166 09/26/01	43-166 06/19/02	43-166 09/23/09	43-167 09/26/01	43-167 09/23/09	43-168 09/27/01	43-168 12/17/02	43-242 09/25/01	RFI-05-01 09/25/01
VOC															
1,1,1-Trichloroethane	ug/L	{ID}	89	1,300,000 {(S)}	1,330,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	{ID}	78 {(X)}	77,000	2,970,000	1 UJ	1 UJ	1 U	1 U	1 UJ	1 U	1 U	NA	1 U	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	32	170,000 {(S)}	170,000	1 U	1 U	1 U	30 U	1 U	30 U	1 U	NA	1 U	1 U
1,1,2-Trichloroethane	ug/L	{NA}	330 {(X)}	110,000	4,420,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	1 U	1 U	1 U	1 U	1 U	0.3	0.76 J	NA	1 U	1.1
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
1,2,4-Trichlorobenzene	ug/L	{NA}	99 {(X)}	300,000 {(S)}	300,000	5 U	5 U	5 U	2 U	5 U	2 U	5 U	NA	5 U	5 U
1,2-Dibromo-3-chloropropane	ug/L	{NA}	{ID}	1,200 {(S)}	1,230	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
1,2-Dibromoethane	ug/L	{ID}	5.7 {(X)}	15,000	4,200,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
1,2-Dichlorobenzene	ug/L	{NA}	13	160,000 {(S)}	156,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
1,2-Dichloroethane	ug/L	2,500,000	360 {(X)}	59,000	8,520,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
1,2-Dichloropropane	ug/L	550,000	230 {(X)}	36,000	2,800,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
1,3-Dichlorobenzene	ug/L	{ID}	28	41,000	111,000	1 U	1 U	1 U	0.2	1 U	0.2	1 U	NA	1 U	1 U
1,4-Dichlorobenzene	ug/L	{NA}	17	74,000 {(S)}	73,800	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
2-Butanone	ug/L	{ID}	2,200	240,000,000 {(S)}	240,000,000	25 U	25 U	25 U	20 U	25 U	20 U	25 U	NA	25 U	25 U
2-Hexanone	ug/L	{NA}	{ID}	8,700,000	16,000,000	50 U	50 U	50 U	50 U	50 U	50 U	50 U	NA	50 U	50 U
4-Methyl-2-pentanone	ug/L	{ID}	{ID}	20,000,000 {(S)}	20,000,000	50 U	50 U	50 U	10 U	50 U	10 U	50 U	NA	50 U	50 U
Acetone	ug/L	15,000,000	1,700	1,000,000,000 {(D,S)}	1,000,000,000	25 U	25 U	3.9 J	2	25 U	3	25 U	NA	25 U	25 U
Benzene	ug/L	68,000	200 {(X)}	35,000	1,750,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Bromodichloromethane	ug/L	{ID}	{ID}	37,000	6,740,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Bromoform	ug/L	{ID}	{ID}	3,100,000 {(S)}	3,100,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Bromomethane	ug/L	{ID}	35	9,000	14,500,000	1 U	1 UJ	1 U	2 U	1 UJ	2 U	1 U	NA	1 U	1 U
Carbon Disulfide	ug/L	13,000	{ID}	550,000	1,190,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NA	5 U	5 U
Carbon Tetrachloride	ug/L	{ID}	45 {(X)}	2,400	793,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Chlorobenzene	ug/L	160,000	25	470,000 {(S)}	472,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Chloroethane	ug/L	110,000	1,100 {(X)}	5,700,000 {(S)}	5,740,000	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Chloroform	ug/L	{ID}	350	180,000	7,920,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Chloromethane	ug/L	36,000	{ID}	45,000	6,340,000	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	14
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Cyclohexane	ug/L	- -	- -	- -	- -	5 U	5 U	5 U	1 U	5 U	1 U	5 U	NA	5 U	5 U
Dibromochloromethane	ug/L	{ID}	{ID}	110,000	2,600,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Dichlorodifluoromethane	ug/L	{ID}	{ID}	300,000 {(S)}	300,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Ethylbenzene	ug/L	43,000	18	170,000 {(S)}	169,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	0.86 J
Isopropylbenzene	ug/L	29,000	28	56,000 {(S)}	56,000	5 U	5 U	5 U	1 U	5 U	1 U	5 U	NA	5 U	0.97 J
m&p-Xylene	ug/L	- -	- -	- -	- -	2 U	2 U	2 U	1 U	2 U	1 U	2 U	NA	2 U	0.57 J
Methyl acetate	ug/L	- -	- -	- -	- -	5 U	5 U	5 U	10 U	5 U	10 U	5 U	NA	5 U	5 U
Methyl tert-butyl ether	ug/L	{ID}	7,100 {(X)}	47,000,000 {(S)}	46,800,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NA	5 U	5 U
Methylcyclohexane	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	20 U	1 U	20 U	1 U	NA	1 U	1 U
Methylene Chloride	ug/L	{ID}	1,500 {(X)}	1,400,000	17,000,000	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	NA	5 U	5 U
o-Xylene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Styrene	ug/L	140,000	80 {(X)}	310,000 {(S)}	310,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Tetrachloroethene	ug/L	{ID}	60 {(X)}	170,000	200,000	1 UJ	1 U	1 UJ	1 U	1 U	1 U	1 U	NA	1 U	1 U
Toluene	ug/L	61,000	270	530,000 {(S)}	526,000	1 U	1 U	1 U	0.2	1 U	0.2	1 U	NA	1 U	1 U
trans-1,2-Dichloroethene	ug/L	230,000	1,500 {(X)}	200,000	6,300,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	0.73 J
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Trichloroethene	ug/L	{ID}	200 {(X)}	4,900	1,100,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	12

Table B-1

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	30-120 09/25/01	43-166 09/26/01	43-166 06/19/02	43-166 09/23/09	43-167 09/26/01	43-167 09/23/09	43-168 09/27/01	43-168 12/17/02	43-242 09/25/01	RFI-05-01 09/25/01
Trichlorofluoromethane	ug/L	{ID}	{NA}	1,100,000 {(S)}	1,100,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Vinyl Chloride	ug/L	33,000	13 {(X)}	13,000	2,760,000	1 U	1 U	1 U	1 U	1 U	1 U	1.1	NA	1 U	6
Xylenes (total)	ug/L	70,000	41	190,000 {(S)}	186,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
SVOC															
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
2,4,5-Trichlorophenol	ug/L	{ID}	{NA}	{NLV}	1,200,000	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
2,4,6-Trichlorophenol	ug/L	{ID}	5	{NLV}	800,000	4.3 U	4 U	NA	NA	4 U	NA	4.2 U	NA	4 U	4.4 U
2,4-Dichlorophenol	ug/L	{ID}	11	{NLV}	4,500,000	11 U	10 U	NA	NA	10 U	NA	11 U	NA	10 U	11 U
2,4-Dimethylphenol	ug/L	{ID}	380	{NLV}	7,870,000	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	22 U	20 U	NA	NA	20 U	NA	21 U	NA	20 U	22 U
2,4-Dinitrotoluene	ug/L	{ID}	{NA}	{NLV}	270,000	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
2-Chloronaphthalene	ug/L	{ID}	{NA}	{ID}	6,740	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
2-Chlorophenol	ug/L	{ID}	18	1,100,000	22,000,000	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
2-Methylphenol	ug/L	- -	- -	- -	- -	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
2-Nitroaniline	ug/L	- -	- -	- -	- -	22 U	20 U	NA	NA	20 U	NA	21 U	NA	20 U	22 U
2-Nitrophenol	ug/L	{ID}	{ID}	{NLV}	2,500,000	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
3&4-Methylphenol	ug/L	- -	- -	- -	- -	11 UJ	10 UJ	NA	NA	10 UJ	NA	11 UJ	NA	10 UJ	11 U
3,3'-Dichlorobenzidine	ug/L	{ID}	0.3 {(M); 0.2}	{NLV}	3,110	**22 U**	**20 U**	NA	NA	**20 U**	NA	**21 U**	NA	**20 U**	**22 U**
3-Nitroaniline	ug/L	- -	- -	- -	- -	22 U	20 U	NA	NA	20 U	NA	21 U	NA	20 U	22 U
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	22 U	20 UJ	NA	NA	20 UJ	NA	21 U	NA	20 U	22 U
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
4-Chloro-3-Methylphenol	ug/L	{ID}	7.4	{NLV}	3,900,000	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
4-Chloroaniline	ug/L	- -	- -	- -	- -	22 U	20 U	NA	NA	20 U	NA	21 U	NA	20 U	22 U
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
4-Nitroaniline	ug/L	- -	- -	- -	- -	22 U	20 U	NA	NA	20 U	NA	21 UJ	NA	20 U	22 U
4-Nitrophenol	ug/L	- -	- -	- -	- -	22 U	20 U	NA	NA	20 U	NA	21 U	NA	20 U	22 U
Acenaphthene	ug/L	{ID}	38	4,200 {(S)}	4,240	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	12.1
Acenaphthylene	ug/L	{ID}	{ID}	3,900 {(S)}	3,930	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
Acetophenone	ug/L	{ID}	{ID}	6,100,000 {(S)}	6,100,000	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
Anthracene	ug/L	{ID}	{ID}	43 {(S)}	43.4	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
Atrazine	ug/L	{ID}	7.3	{NLV}	70,000	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
Benzaldehyde	ug/L	- -	- -	- -	- -	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
Benzo(a)anthracene	ug/L	{ID}	{ID}	{NLV}	9.4	1.1 U	1 U	NA	NA	1 U	NA	1.1 U	NA	1 U	1.1 U
Benzo(a)pyrene	ug/L	{ID}	{ID}	{NLV}	1.62	**2.2 U**	**2 U**	NA	NA	**2 U**	NA	**2.1 U**	NA	**2 U**	**2.2 U**
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	{ID}	1.5	**2.2 U**	**2 U**	NA	NA	**2 U**	NA	**2.1 U**	NA	**2 U**	**2.2 U**
Benzo(g,h,i)perylene	ug/L	{ID}	{ID}	{NLV}	0.26	**5.4 U**	**5 U**	NA	NA	**5 U**	NA	**5.3 U**	NA	**5 U**	**5.6 U**
Benzo(k)fluoranthene	ug/L	{ID}	{NA}	{NLV}	0.8	**5.4 U**	**5 U**	NA	NA	**5 U**	NA	**5.3 U**	NA	**5 U**	**5.6 U**
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	1 {(M); 0.79}	210,000	17,200,000	**1.1 U**	1 U	NA	NA	1 U	NA	**1.1 U**	NA	1 U	**1.1 U**
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	25	{NLV}	340	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
Butylbenzylphthalate	ug/L	{ID}	67 {(X)}	{NLV}	2,690	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
Caprolactam	ug/L	{NA}	{NA}	{NLV}	5,250,000,000	11 U	10 U	NA	NA	10 U	NA	11 U	NA	10 U	11 U
Carbazole	ug/L	{ID}	10 {(M); 4.0}	{NLV}	7,480	**11 U**	10 U	NA	NA	10 U	NA	**11 UJ**	NA	10 U	**11 U**
Chrysene	ug/L	{ID}	{ID}	{ID}	1.6	**5.4 U**	**5 U**	NA	NA	**5 U**	NA	**5.3 U**	NA	**5 U**	**5.6 U**
Dibenzo(a,h)anthracene	ug/L	{ID}	{ID}	{NLV}	2.49	2.2 U	2 U	NA	NA	2 U	NA	2.1 U	NA	2 U	2.2 U

Table B-1

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	30-120 09/25/01	43-166 09/26/01	43-166 06/19/02	43-166 09/23/09	43-167 09/26/01	43-167 09/23/09	43-168 09/27/01	43-168 12/17/02	43-242 09/25/01	RFI-05-01 09/25/01
Dibenzofuran	ug/L	{ID}	4	10,000 {(S)}	10,000	**4.3 U**	4 U	NA	NA	4 U	NA	**4.2 U**	NA	4 U	2.68 J
Diethylphthalate	ug/L	{NA}	110	{NLV}	1,080,000	5.4 U	5 U	NA	NA	5 U	NA	1.23 J	NA	5 U	5.6 U
Dimethylphthalate	ug/L	{NA}	{NA}	{NLV}	4,190,000	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
Di-n-Butylphthalate	ug/L	{NA}	9.7	{NLV}	11,200	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
Di-n-Octylphthalate	ug/L	{ID}	{ID}	{NLV}	3,000	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
Fluoranthene	ug/L	{ID}	1.6	210 {(S)}	206	**2.2 U**	**2 U**	NA	NA	**2 U**	NA	**2.1 U**	NA	**2 U**	**2.2 U**
Fluorene	ug/L	{ID}	12	2,000 {(S)}	1,980	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
Hexachlorobenzene	ug/L	{ID}	0.2 {(M); 0.0003}	3,000	6,200	**1.1 U**	**1 U**	NA	NA	**1 U**	NA	**1.1 U**	NA	**1 U**	**1.1 U**
Hexachlorobutadiene	ug/L	{ID}	0.053	3,200 {(S)}	3,230	**5.4 U**	**5 U**	NA	NA	**5 U**	NA	**5.3 U**	NA	**5 U**	**5.6 U**
Hexachlorocyclopentadiene	ug/L	{ID}	{ID}	420	1,800	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{ID}	{NLV}	0.022	**2.2 U**	**2 U**	NA	NA	**2 U**	NA	**2.1 U**	NA	**2 U**	**2.2 U**
Isophorone	ug/L	{ID}	1,300 {(X)}	{NLV}	12,000,000	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
Methylphenols, Total	ug/L	{NA}	30 {(M); 25}	{NLV}	28,000,000	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	1.41 J
Nitrobenzene	ug/L	{NA}	180 {(X)}	550,000	2,090,000	2.2 U	2 U	NA	NA	2 U	NA	2.1 U	NA	2 U	2.2 U
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NA}	{NLV}	9,890,000	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
N-Nitrosodiphenylamine	ug/L	{ID}	{NA}	{NLV}	35,100	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
Pentachlorophenol	ug/L	{ID}	2.8 {(G,X)}	{NLV}	1,850,000	**22 U**	**20 U**	NA	NA	**20 U**	NA	**21 U**	NA	**20 U**	**22 U**
Phenanthrene	ug/L	{ID}	2 {(M); 1.4}	1,000 {(S)}	1,000	**5.4 U**	**5 U**	NA	NA	**5 U**	NA	**5.3 U**	NA	**5 U**	**5.6 U**
Phenol	ug/L	{NA}	450	{NLV}	82,800,000	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
Pyrene	ug/L	{ID}	{ID}	140 {(S)}	135	5.4 U	5 U	NA	NA	5 U	NA	5.3 U	NA	5 U	5.6 U
PCB															
Aroclor-1016	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	NA	0.1 U	NA	0.1 U	NA	0.11 U	0.1 U
Aroclor-1221	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	NA	0.1 U	NA	0.1 U	NA	0.11 U	0.1 U
Aroclor-1232	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	NA	0.1 U	NA	0.1 U	NA	0.11 U	0.1 U
Aroclor-1242	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	NA	0.1 U	NA	0.1 U	NA	0.11 U	0.1 U
Aroclor-1248	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	NA	0.1 U	NA	0.1 U	NA	0.11 U	0.1 U
Aroclor-1254	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	NA	0.1 U	NA	0.1 U	NA	0.11 U	0.1 U
Aroclor-1260	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	NA	0.1 U	NA	0.1 U	NA	0.11 U	0.1 U
Total PCBs	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	0.11 U	0.1 U	NA	NA	0.1 U	NA	0.1 U	NA	0.11 U	0.1 U
PCB-Dissolved															
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	NA	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	NA	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	NA	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	NA	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	NA	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	NA	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	NA	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U
Total PCBs (Dissolved)	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	0.11 U	0.1 U	NA	NA	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U
Inorganic															
Antimony	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	NA	NA	1.2 U	NA	NA	NA	NA	1.2 U	NA	NA
Arsenic	ug/L	{ID}	10	{NLV}	{NA}	NA	NA	**29 (GSI (2013))**	NA	NA	NA	NA	4.4	NA	NA
Barium	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	NA	NA	930	NA	NA	NA	NA	170 J	NA	NA
Beryllium	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	NA	NA	0.4 UJ	NA	NA	NA	NA	0.24 J	NA	NA
Cadmium	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	NA	NA	0.2 U	NA	NA	NA	NA	0.14 J	NA	NA
Chromium Total	ug/L	- -	170 {(G,X)}	- -	- -	NA	NA	1.2	NA	NA	NA	NA	1.2	NA	NA
Cobalt	ug/L	{ID}	100	{NLV}	{NA}	NA	NA	4.2	NA	NA	NA	NA	2.6 J	NA	NA

Table B-1

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	30-120 09/25/01	43-166 09/26/01	43-166 06/19/02	43-166 09/23/09	43-167 09/26/01	43-167 09/23/09	43-168 09/27/01	43-168 12/17/02	43-242 09/25/01	RFI-05-01 09/25/01
Copper	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	NA	NA	6.6 J	NA	NA	NA	NA	6.6 J	NA	NA
Cyanide (total)	ug/L	{ID}	5.2	{NLV}	{NA}	0.94 J	1.2 J	5 U	NA	2 J	NA	1.6 J	5 U	1.3 J	1.4 J
Lead	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	NA	NA	0.3 J	NA	NA	NA	NA	0.74 J	NA	NA
Manganese	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	NA	NA	1,200	NA	NA	NA	NA	1,800 J	NA	NA
Mercury	ug/L	{ID}	0.0013	56 {(S)}	56	**0.2 U**	**0.2 U**	**0.2 U**	NA	**0.2 U**	NA	**0.2 U**	**0.2 U**	**0.2 U**	**0.2 U**
Nickel	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	NA	NA	13	NA	NA	NA	NA	9.3 J	NA	NA
Selenium	ug/L	{ID}	5	{NLV}	{NA}	NA	NA	1.4 U	NA	NA	NA	NA	1.6 U	NA	NA
Silver	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	NA	NA	**0.4 U**	NA	NA	NA	NA	**0.4 UJ**	NA	NA
Thallium	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	NA	NA	0.085 J	NA	NA	NA	NA	0.17 J	NA	NA
Vanadium	ug/L	{ID}	27	{NLV}	{NA}	NA	NA	0.8 U	NA	NA	NA	NA	0.8 U	NA	NA
Zinc	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	NA	NA	26 J	NA	NA	NA	NA	18 J	NA	NA
Inorganic-Dissolved															
Antimony (Dissolved)	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	1.2 U	1.2 U	NA	NA	1.2 U	NA	1.2 U	NA	1.2 U	1.2 U
Arsenic (Dissolved)	ug/L	{ID}	10	{NLV}	{NA}	4.4	**24 (GSI (2013))**	NA	NA	**37 (GSI (2013))**	NA	6.1	NA	1.2	**18 (GSI (2013))**
Barium (Dissolved)	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	120 J	410	NA	NA	400	NA	150	NA	260 J	120
Beryllium (Dissolved)	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	0.4 U	0.4 U	NA	NA	0.4 U	NA	0.4 U	NA	0.4 U	0.4 U
Cadmium (Dissolved)	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	0.2 U	0.2 U	NA	NA	0.2 U	NA	0.2 U	NA	0.78	0.2 U
Chromium Total (Dissolved)	ug/L	- -	170 {(G,X)}	- -	- -	0.6 U	0.6 U	NA	NA	0.6 U	NA	0.6 U	NA	0.6 U	0.6 U
Cobalt (Dissolved)	ug/L	{ID}	100	{NLV}	{NA}	0.88	5.9	NA	NA	6.1	NA	2.5	NA	3.3	2.3
Copper (Dissolved)	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	1.5	1.7	NA	NA	0.95	NA	3.5	NA	11	7.9
Cyanide (dissolved)	ug/L	{ID}	5.2	{NLV}	{NA}	5 U	5 U	NA	NA	1.1 J	NA	1.6 J	NA	1 J	1.7 J
Lead (Dissolved)	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	0.4 U	0.4 U	NA	NA	0.4 U	NA	0.4 U	NA	0.4 U	1.1
Manganese (Dissolved)	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	780 J	1,600	NA	NA	280	NA	1,400 J	NA	480 J	900 J
Mercury (Dissolved)	ug/L	- -	0.0013	- -	- -	**0.2 U**	**0.2 U**	NA	NA	**0.2 U**	NA	**0.2 U**	NA	**0.2 U**	**0.2 U**
Nickel (Dissolved)	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	5.4	13	NA	NA	28	NA	13	NA	8.2	33 J
Selenium (Dissolved)	ug/L	{ID}	5	{NLV}	{NA}	2 U	1.4 U	NA	NA	2.4 J	NA	1.8 J	NA	4 J	1.6 J
Silver (Dissolved)	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	**0.4 UJ**	**0.4 U**	NA	NA	**0.4 U**	NA	**0.4 U**	NA	**0.4 UJ**	**0.4 U**
Thallium (Dissolved)	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	0.2 U	0.2 U	NA	NA	0.2 U	NA	0.2 U	NA	0.43	0.2 U
Vanadium (Dissolved)	ug/L	{ID}	27	{NLV}	{NA}	0.8 U	0.8 U	NA	NA	0.8 U	NA	0.8 U	NA	0.8 U	0.8 U
Zinc (Dissolved)	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	7.8	19	NA	NA	18	NA	14 J	NA	12	13
Field Parameters															
Conductivity Field	mS/cm	- -	- -	- -	- -	NA	NA	NA	10.72	NA	3.777	NA	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	- -	NA	NA	NA	130.7 -	NA	37.2 -	NA	NA	NA	NA
pH Field	s.u.	- -	- -	- -	- -	NA	NA	NA	7.28	NA	7.27	NA	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	- -	NA	NA	NA	76	NA	70	NA	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	- -	NA	NA	NA	18.87	NA	19.4	NA	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	- -	NA	NA	NA	1.61	NA	1.29	NA	NA	NA	NA
Field Parameters-Filtered															
Dissolved Oxygen, Field	ug/L	- -	- -	- -	- -	NA	NA	NA	220	NA	140	NA	NA	NA	NA

Table B-1

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-05-01 06/20/02	RFI-05-01 03/31/03	RFI-05-02 09/20/01	RFI-05-02 04/03/03	RFI-05-06 09/25/01	RFI-05-06 06/20/02	RFI-05-10 09/19/01
VOC												
1,1,1-Trichloroethane	ug/L	{ID}	89	1,300,000 {(S)}	1,330,000	1 U	1 U	1 U [1 U]	NA	1 U	1 UJ	1 U
1,1,2,2-Tetrachloroethane	ug/L	{ID}	78 {(X)}	77,000	2,970,000	1 U	1 U	1 U [1 U]	NA	1 UJ	1 U	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	32	170,000 {(S)}	170,000	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/L	{NA}	330 {(X)}	110,000	4,420,000	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	0.95 J	1 U	1 U [1 U]	NA	1.3	1.1	1 U
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
1,2,4-Trichlorobenzene	ug/L	{NA}	99 {(X)}	300,000 {(S)}	300,000	5 U	5 U	5 U [5 U]	NA	5 U	5 U	5 U
1,2-Dibromo-3-chloropropane	ug/L	{NA}	{ID}	1,200 {(S)}	1,230	1 U	1 UJ	1 U [1 U]	NA	1 U	1 UJ	1 U
1,2-Dibromoethane	ug/L	{ID}	5.7 {(X)}	15,000	4,200,000	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
1,2-Dichlorobenzene	ug/L	{NA}	13	160,000 {(S)}	156,000	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
1,2-Dichloroethane	ug/L	2,500,000	360 {(X)}	59,000	8,520,000	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
1,2-Dichloropropane	ug/L	550,000	230 {(X)}	36,000	2,800,000	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
1,3-Dichlorobenzene	ug/L	{ID}	28	41,000	111,000	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
1,4-Dichlorobenzene	ug/L	{NA}	17	74,000 {(S)}	73,800	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
2-Butanone	ug/L	{ID}	2,200	240,000,000 {(S)}	240,000,000	25 U	25 U	0.59 J [25 U]	NA	25 U	25 UJ	25 U
2-Hexanone	ug/L	{NA}	{ID}	8,700,000	16,000,000	50 U	50 U	50 U [50 U]	NA	50 U	50 U	50 U
4-Methyl-2-pentanone	ug/L	{ID}	{ID}	20,000,000 {(S)}	20,000,000	50 U	50 U	50 U [50 U]	NA	50 U	50 U	50 U
Acetone	ug/L	15,000,000	1,700	1,000,000,000 {(D,S)}	1,000,000,000	25 U	25 U	25 U [25 U]	NA	25 U	25 U	25 U
Benzene	ug/L	68,000	200 {(X)}	35,000	1,750,000	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
Bromodichloromethane	ug/L	{ID}	{ID}	37,000	6,740,000	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
Bromoform	ug/L	{ID}	{ID}	3,100,000 {(S)}	3,100,000	1 U	1 U	1 U [1 U]	NA	1 U	1 UJ	1 U
Bromomethane	ug/L	{ID}	35	9,000	14,500,000	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
Carbon Disulfide	ug/L	13,000	{ID}	550,000	1,190,000	5 U	5 U	5 U [5 U]	N+AD2A	5 U	5 U	5 U
Carbon Tetrachloride	ug/L	{ID}	45 {(X)}	2,400	793,000	1 U	1 U	1 U [1 U]	NA	1 U	1 UJ	1 U
Chlorobenzene	ug/L	160,000	25	470,000 {(S)}	472,000	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
Chloroethane	ug/L	110,000	1,100 {(X)}	5,700,000 {(S)}	5,740,000	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
Chloroform	ug/L	{ID}	350	180,000	7,920,000	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
Chloromethane	ug/L	36,000	{ID}	45,000	6,340,000	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	7.8	9	1 U [1 U]	NA	1.1	1 U	1 U
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
Cyclohexane	ug/L	- -	- -	- -	- -	5 U	5 U	5 U [5 U]	NA	5 U	5 U	5 U
Dibromochloromethane	ug/L	{ID}	{ID}	110,000	2,600,000	1 U	1 U	1 U [1 U]	NA	1 U	1 UJ	1 U
Dichlorodifluoromethane	ug/L	{ID}	{ID}	300,000 {(S)}	300,000	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
Ethylbenzene	ug/L	43,000	18	170,000 {(S)}	169,000	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
Isopropylbenzene	ug/L	29,000	28	56,000 {(S)}	56,000	0.66 J	5 U	5 U [5 U]	NA	5 U	5 U	5 U
m&p-Xylene	ug/L	- -	- -	- -	- -	2 U	2 U	2 U [2 U]	NA	2 U	2 U	2 U
Methyl acetate	ug/L	- -	- -	- -	- -	5 U	5 U	5 U [5 U]	NA	5 U	5 U	5 U
Methyl tert-butyl ether	ug/L	{ID}	7,100 {(X)}	47,000,000 {(S)}	46,800,000	5 U	5 U	5 U [5 U]	NA	5 U	5 U	5 U
Methylcyclohexane	ug/L	- -	- -	- -	- -	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
Methylene Chloride	ug/L	{ID}	1,500 {(X)}	1,400,000	17,000,000	5 U	5 U	5 U [5 U]	NA	5 U	5 U	5 U
o-Xylene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
Styrene	ug/L	140,000	80 {(X)}	310,000 {(S)}	310,000	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
Tetrachloroethene	ug/L	{ID}	60 {(X)}	170,000	200,000	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
Toluene	ug/L	61,000	270	530,000 {(S)}	526,000	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/L	230,000	1,500 {(X)}	200,000	6,300,000	1 U	1 U	1 U [1 U]	NA	1	1 U	1 U
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
Trichloroethene	ug/L	{ID}	200 {(X)}	4,900	1,100,000	8.1	9.4	1.7 [1.8]	NA	0.93 J	0.7 J	1 U

Table B-1

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-05-01 06/20/02	RFI-05-01 03/31/03	RFI-05-02 09/20/01	RFI-05-02 04/03/03	RFI-05-06 09/25/01	RFI-05-06 06/20/02	RFI-05-10 09/19/01
Trichlorofluoromethane	ug/L	{ID}	{NA}	1,100,000 {(S)}	1,100,000	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
Vinyl Chloride	ug/L	33,000	13 {(X)}	13,000	2,760,000	2.2	3.5	1 U [1 U]	NA	1 U	1 U	1 U
Xylenes (total)	ug/L	70,000	41	190,000 {(S)}	186,000	1 U	1 U	1 U [1 U]	NA	1 U	1 U	1 U
SVOC												
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
2,4,5-Trichlorophenol	ug/L	{ID}	{NA}	{NLV}	1,200,000	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
2,4,6-Trichlorophenol	ug/L	{ID}	5	{NLV}	800,000	NA	NA	4.2 U [4.3 U]	NA	4.4 U	NA	4 U
2,4-Dichlorophenol	ug/L	{ID}	11	{NLV}	4,500,000	NA	NA	11 U [11 U]	NA	11 U	NA	10 U
2,4-Dimethylphenol	ug/L	{ID}	380	{NLV}	7,870,000	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	NA	NA	21 UJ [22 UJ]	NA	22 U	NA	20 U
2,4-Dinitrotoluene	ug/L	{ID}	{NA}	{NLV}	270,000	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
2-Chloronaphthalene	ug/L	{ID}	{NA}	{ID}	6,740	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
2-Chlorophenol	ug/L	{ID}	18	1,100,000	22,000,000	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
2-Methylphenol	ug/L	- -	- -	- -	- -	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
2-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	21 U [22 U]	NA	22 U	NA	20 U
2-Nitrophenol	ug/L	{ID}	{ID}	{NLV}	2,500,000	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
3&4-Methylphenol	ug/L	- -	- -	- -	- -	NA	NA	11 U [11 U]	NA	11 U	NA	10 U
3,3'-Dichlorobenzidine	ug/L	{ID}	0.3 {(M); 0.2}	{NLV}	3,110	NA	NA	**21 U [22 U]**	NA	**22 U**	NA	**20 U**
3-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	21 U [22 U]	NA	22 U	NA	20 U
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	NA	NA	21 U [22 U]	NA	22 U	NA	20 U
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
4-Chloro-3-Methylphenol	ug/L	{ID}	7.4	{NLV}	3,900,000	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
4-Chloroaniline	ug/L	- -	- -	- -	- -	NA	NA	21 U [22 U]	NA	22 U	NA	20 U
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	NA	R [R]	NA	5.5 U	NA	R
4-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	21 U [22 U]	NA	22 U	NA	20 U
4-Nitrophenol	ug/L	- -	- -	- -	- -	NA	NA	21 U [22 U]	NA	22 U	NA	20 U
Acenaphthene	ug/L	{ID}	38	4,200 {(S)}	4,240	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
Acenaphthylene	ug/L	{ID}	{ID}	3,900 {(S)}	3,930	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
Acetophenone	ug/L	{ID}	{ID}	6,100,000 {(S)}	6,100,000	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
Anthracene	ug/L	{ID}	{ID}	43 {(S)}	43.4	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
Atrazine	ug/L	{ID}	7.3	{NLV}	70,000	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
Benzaldehyde	ug/L	- -	- -	- -	- -	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
Benzo(a)anthracene	ug/L	{ID}	{ID}	{NLV}	9.4	NA	NA	1.1 U [1.1 U]	NA	1.1 U	NA	1 U
Benzo(a)pyrene	ug/L	{ID}	{ID}	{NLV}	1.62	NA	NA	**2.1 U [2.2 U]**	NA	**2.2 U**	NA	**2 U**
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	{ID}	1.5	NA	NA	**2.1 U [2.2 U]**	NA	**2.2 U**	NA	**2 U**
Benzo(g,h,i)perylene	ug/L	{ID}	{ID}	{NLV}	0.26	NA	NA	**5.3 U [5.4 U]**	NA	**5.5 U**	NA	**5 U**
Benzo(k)fluoranthene	ug/L	{ID}	{NA}	{NLV}	0.8	NA	NA	**5.3 U [5.4 U]**	NA	**5.5 U**	NA	**5 U**
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	1 {(M); 0.79}	210,000	17,200,000	NA	NA	**1.1 U [1.1 U]**	NA	**1.1 U**	NA	1 U
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	25	{NLV}	340	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
Butylbenzylphthalate	ug/L	{ID}	67 {(X)}	{NLV}	2,690	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
Caprolactam	ug/L	{NA}	{NA}	{NLV}	5,250,000,000	NA	NA	11 U [11 U]	NA	11 U	NA	10 U
Carbazole	ug/L	{ID}	10 {(M); 4.0}	{NLV}	7,480	NA	NA	**11 U [11 U]**	NA	**11 U**	NA	10 U
Chrysene	ug/L	{ID}	{ID}	{ID}	1.6	NA	NA	**5.3 U [5.4 U]**	NA	**5.5 U**	NA	**5 U**
Dibenzo(a,h)anthracene	ug/L	{ID}	{ID}	{NLV}	2.49	NA	NA	2.1 U [2.2 U]	NA	2.2 U	NA	2 U

Table B-1

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-05-01 06/20/02	RFI-05-01 03/31/03	RFI-05-02 09/20/01	RFI-05-02 04/03/03	RFI-05-06 09/25/01	RFI-05-06 06/20/02	RFI-05-10 09/19/01
Dibenzofuran	ug/L	{ID}	4	10,000 {(S)}	10,000	NA	NA	**4.2 U [4.3 U]**	NA	**4.4 U**	NA	4 U
Diethylphthalate	ug/L	{NA}	110	{NLV}	1,080,000	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
Dimethylphthalate	ug/L	{NA}	{NA}	{NLV}	4,190,000	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
Di-n-Butylphthalate	ug/L	{NA}	9.7	{NLV}	11,200	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
Di-n-Octylphthalate	ug/L	{ID}	{ID}	{NLV}	3,000	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
Fluoranthene	ug/L	{ID}	1.6	210 {(S)}	206	NA	NA	**2.1 U [2.2 U]**	NA	**2.2 U**	NA	**2 U**
Fluorene	ug/L	{ID}	12	2,000 {(S)}	1,980	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
Hexachlorobenzene	ug/L	{ID}	0.2 {(M); 0.0003}	3,000	6,200	NA	NA	**1.1 U [1.1 U]**	NA	**1.1 U**	NA	**1 U**
Hexachlorobutadiene	ug/L	{ID}	0.053	3,200 {(S)}	3,230	NA	NA	**5.3 U [5.4 U]**	NA	**5.5 U**	NA	**5 U**
Hexachlorocyclopentadiene	ug/L	{ID}	{ID}	420	1,800	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{ID}	{NLV}	0.022	NA	NA	**2.1 U [2.2 U]**	NA	**2.2 U**	NA	**2 U**
Isophorone	ug/L	{ID}	1,300 {(X)}	{NLV}	12,000,000	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
Methylphenols, Total	ug/L	{NA}	30 {(M); 25}	{NLV}	28,000,000	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
Nitrobenzene	ug/L	{NA}	180 {(X)}	550,000	2,090,000	NA	NA	2.1 U [2.2 U]	NA	2.2 U	NA	2 U
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NA}	{NLV}	9,890,000	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
N-Nitrosodiphenylamine	ug/L	{ID}	{NA}	{NLV}	35,100	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
Pentachlorophenol	ug/L	{ID}	2.8 {(G,X)}	{NLV}	1,850,000	NA	NA	**21 U [22 U]**	NA	**22 U**	NA	**20 U**
Phenanthrene	ug/L	{ID}	2 {(M); 1.4}	1,000 {(S)}	1,000	NA	NA	**5.3 U [5.4 U]**	NA	**5.5 U**	NA	**5 U**
Phenol	ug/L	{NA}	450	{NLV}	82,800,000	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
Pyrene	ug/L	{ID}	{ID}	140 {(S)}	135	NA	NA	5.3 U [5.4 U]	NA	5.5 U	NA	5 U
PCB												
Aroclor-1016	ug/L	- -	- -	- -	- -	NA	NA	0.11 U [0.11 U]	NA	0.11 U	NA	0.1 U
Aroclor-1221	ug/L	- -	- -	- -	- -	NA	NA	0.11 U [0.11 U]	NA	0.11 U	NA	0.1 U
Aroclor-1232	ug/L	- -	- -	- -	- -	NA	NA	0.11 U [0.11 U]	NA	0.11 U	NA	0.1 U
Aroclor-1242	ug/L	- -	- -	- -	- -	NA	NA	0.11 U [0.11 U]	NA	0.11 U	NA	0.1 U
Aroclor-1248	ug/L	- -	- -	- -	- -	NA	NA	0.11 U [0.11 U]	NA	0.11 U	NA	0.1 U
Aroclor-1254	ug/L	- -	- -	- -	- -	NA	NA	0.11 U [0.11 U]	NA	0.11 U	NA	0.1 U
Aroclor-1260	ug/L	- -	- -	- -	- -	NA	NA	0.11 U [0.11 U]	NA	0.11 U	NA	0.1 U
Total PCBs	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	NA	NA	0.11 U [0.11 U]	NA	0.11 U	NA	0.1 U
PCB-Dissolved												
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.11 U [0.11 U]	NA	0.11 U	NA	0.1 U
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.11 U [0.11 U]	NA	0.11 U	NA	0.1 U
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.11 U [0.11 U]	NA	0.11 U	NA	0.1 U
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.11 U [0.11 U]	NA	0.11 U	NA	0.1 U
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.11 U [0.11 U]	NA	0.11 U	NA	0.1 U
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.11 U [0.11 U]	NA	0.11 U	NA	0.1 U
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.11 U [0.11 U]	NA	0.11 U	NA	0.1 U
Total PCBs (Dissolved)	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	NA	NA	0.11 U [0.11 U]	NA	0.11 U	NA	0.1 U
Inorganic												
Antimony	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	1.2 U	NA	NA	1.2 U [1.2 U]	NA	NA	NA
Arsenic	ug/L	{ID}	10	{NLV}	{NA}	10	NA	NA	1.1 J [0.85 J]	NA	NA	NA
Barium	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	120	NA	NA	220 [210]	NA	NA	NA
Beryllium	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	0.4 U	NA	NA	0.4 U [0.4 U]	NA	NA	NA
Cadmium	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	0.2 U	NA	NA	3.4 [3.2]	NA	NA	NA
Chromium Total	ug/L	- -	170 {(G,X)}	- -	- -	0.71	NA	NA	1.6 [1.4]	NA	NA	NA
Cobalt	ug/L	{ID}	100	{NLV}	{NA}	2.6	NA	NA	96 [88]	NA	NA	NA

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RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-05-01 06/20/02	RFI-05-01 03/31/03	RFI-05-02 09/20/01	RFI-05-02 04/03/03	RFI-05-06 09/25/01	RFI-05-06 06/20/02	RFI-05-10 09/19/01
Copper	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	2.3	NA	NA	10 [8.6]	NA	NA	NA
Cyanide (total)	ug/L	{ID}	5.2	{NLV}	{NA}	5 U	NA	2.4 J [1.6 J]	5 U [5 U]	2.6 J	NA	1.6 J
Lead	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	1.7	NA	NA	2.2 [2.1]	NA	NA	NA
Manganese	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	780	NA	NA	1,900 J [1,800 J]	NA	NA	NA
Mercury	ug/L	{ID}	0.0013	56 {(S)}	56	**0.2 U**	NA	**0.2 U [0.2 U]**	**0.2 U [0.2 U]**	**0.2 U**	NA	**0.2 U**
Nickel	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	33	NA	NA	**210 (GSI (2013)) [200 (GSI (2013))]**	NA	NA	NA
Selenium	ug/L	{ID}	5	{NLV}	{NA}	1.4 U	NA	NA	2.3 J [1.9]	NA	NA	NA
Silver	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	**0.4 UJ**	NA	NA	0.094 J [0.15 J]	NA	NA	NA
Thallium	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	0.19 J	NA	NA	0.86 [1.1]	NA	NA	NA
Vanadium	ug/L	{ID}	27	{NLV}	{NA}	0.8 U	NA	NA	0.8 U [0.8 U]	NA	NA	NA
Zinc	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	13 UJ	NA	NA	35 [35]	NA	NA	NA
Inorganic-Dissolved												
Antimony (Dissolved)	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	NA	NA	1.2 U [1.2 U]	NA	1.2 U	NA	1.2 U
Arsenic (Dissolved)	ug/L	{ID}	10	{NLV}	{NA}	NA	NA	1 U [1 J]	NA	**24 (GSI (2013))**	NA	**23 (GSI (2013))**
Barium (Dissolved)	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	NA	NA	190 [200]	NA	460	NA	180
Beryllium (Dissolved)	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	NA	NA	0.4 U [0.4 U]	NA	0.4 U	NA	0.4 U
Cadmium (Dissolved)	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	NA	NA	0.38 [0.39]	NA	0.2 U	NA	0.2 U
Chromium Total (Dissolved)	ug/L	- -	170 {(G,X)}	- -	- -	NA	NA	0.6 U [0.76 J]	NA	0.67	NA	0.6 U
Cobalt (Dissolved)	ug/L	{ID}	100	{NLV}	{NA}	NA	NA	8.5 [8.8]	NA	3	NA	3.2
Copper (Dissolved)	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	NA	NA	6.6 [9.7]	NA	1.6	NA	13
Cyanide (dissolved)	ug/L	{ID}	5.2	{NLV}	{NA}	NA	NA	2.2 J [1.6 J]	NA	2.3 J	NA	2.1 J
Lead (Dissolved)	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	NA	NA	0.4 U [0.4 U]	NA	0.4 U	NA	0.4 U
Manganese (Dissolved)	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	NA	NA	1,200 J [1,300 J]	NA	240 J	NA	860 J
Mercury (Dissolved)	ug/L	- -	0.0013	- -	- -	NA	NA	**0.2 U [0.2 U]**	NA	**0.2 U**	NA	**0.2 U**
Nickel (Dissolved)	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	NA	NA	52 [54]	NA	13 J	NA	7.8
Selenium (Dissolved)	ug/L	{ID}	5	{NLV}	{NA}	NA	NA	1.4 U [1.5 J]	NA	1.4 U	NA	2.5 J
Silver (Dissolved)	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	NA	NA	**0.4 UJ [0.4 UJ]**	NA	**0.4 U**	NA	**0.4 UJ**
Thallium (Dissolved)	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	NA	NA	0.87 [0.89]	NA	0.3	NA	0.23
Vanadium (Dissolved)	ug/L	{ID}	27	{NLV}	{NA}	NA	NA	0.8 U [0.8 U]	NA	0.8 U	NA	0.8 U
Zinc (Dissolved)	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	NA	NA	8.3 [12]	NA	13	NA	11
Field Parameters												
Conductivity Field	mS/cm	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
pH Field	s.u.	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Field Parameters-Filtered												
Dissolved Oxygen, Field	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA

Table B-1

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Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-05-10 04/02/03	RFI-05-10 10/12/04	RFI-05-21 09/25/01	RFI-05-21 03/27/03
VOC									
1,1,1-Trichloroethane	ug/L	{ID}	89	1,300,000 {(S)}	1,330,000	NA	1 U	1 U [1 U]	NA
1,1,2,2-Tetrachloroethane	ug/L	{ID}	78 {(X)}	77,000	2,970,000	NA	1 U	1 UJ [1 U]	NA
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	32	170,000 {(S)}	170,000	NA	30 U	1 U [1 U]	NA
1,1,2-Trichloroethane	ug/L	{NA}	330 {(X)}	110,000	4,420,000	NA	1 U	1 U [1 U]	NA
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	NA	1 U	1 U [1 U]	NA
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	NA	1 U	1 U [1 U]	NA
1,2,4-Trichlorobenzene	ug/L	{NA}	99 {(X)}	300,000 {(S)}	300,000	NA	2 U	5 U [5 U]	NA
1,2-Dibromo-3-chloropropane	ug/L	{NA}	{ID}	1,200 {(S)}	1,230	NA	1 U	1 U [1 U]	NA
1,2-Dibromoethane	ug/L	{ID}	5.7 {(X)}	15,000	4,200,000	NA	1 U	1 U [1 U]	NA
1,2-Dichlorobenzene	ug/L	{NA}	13	160,000 {(S)}	156,000	NA	1 U	1 U [1 U]	NA
1,2-Dichloroethane	ug/L	2,500,000	360 {(X)}	59,000	8,520,000	NA	1 U	1 U [1 U]	NA
1,2-Dichloropropane	ug/L	550,000	230 {(X)}	36,000	2,800,000	NA	1 U	1 U [1 U]	NA
1,3-Dichlorobenzene	ug/L	{ID}	28	41,000	111,000	NA	1 U	1 U [1 U]	NA
1,4-Dichlorobenzene	ug/L	{NA}	17	74,000 {(S)}	73,800	NA	1 U	1 U [1 U]	NA
2-Butanone	ug/L	{ID}	2,200	240,000,000 {(S)}	240,000,000	NA	30 U	25 U [25 U]	NA
2-Hexanone	ug/L	{NA}	{ID}	8,700,000	16,000,000	NA	50 U	50 U [50 U]	NA
4-Methyl-2-pentanone	ug/L	{ID}	{ID}	20,000,000 {(S)}	20,000,000	NA	1 U	50 U [50 U]	NA
Acetone	ug/L	15,000,000	1,700	1,000,000,000 {(D,S)}	1,000,000,000	NA	190 J	25 U [25 U]	NA
Benzene	ug/L	68,000	200 {(X)}	35,000	1,750,000	NA	1 U	1 U [1 U]	NA
Bromodichloromethane	ug/L	{ID}	{ID}	37,000	6,740,000	NA	1 U	1 U [1 U]	NA
Bromoform	ug/L	{ID}	{ID}	3,100,000 {(S)}	3,100,000	NA	1 UJ	1 U [1 U]	NA
Bromomethane	ug/L	{ID}	35	9,000	14,500,000	NA	2 UJ	1 U [1 U]	NA
Carbon Disulfide	ug/L	13,000	{ID}	550,000	1,190,000	NA	5 UJ	5 U [5 U]	NA
Carbon Tetrachloride	ug/L	{ID}	45 {(X)}	2,400	793,000	NA	1 U	1 U [1 U]	NA
Chlorobenzene	ug/L	160,000	25	470,000 {(S)}	472,000	NA	1 U	1 U [1 U]	NA
Chloroethane	ug/L	110,000	1,100 {(X)}	5,700,000 {(S)}	5,740,000	NA	1 UJ	1 U [1 U]	NA
Chloroform	ug/L	{ID}	350	180,000	7,920,000	NA	1 U	1 U [1 U]	NA
Chloromethane	ug/L	36,000	{ID}	45,000	6,340,000	NA	1 U	1 U [1 U]	NA
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	NA	1 U	1.2 [0.66 J]	NA
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	NA	1 U	1 U [1 U]	NA
Cyclohexane	ug/L	- -	- -	- -	- -	NA	1 U	5 U [5 U]	NA
Dibromochloromethane	ug/L	{ID}	{ID}	110,000	2,600,000	NA	1 U	1 U [1 U]	NA
Dichlorodifluoromethane	ug/L	{ID}	{ID}	300,000 {(S)}	300,000	NA	1 U	1 U [1 U]	NA
Ethylbenzene	ug/L	43,000	18	170,000 {(S)}	169,000	NA	1 U	1 U [1 U]	NA
Isopropylbenzene	ug/L	29,000	28	56,000 {(S)}	56,000	NA	1 U	5 U [5 U]	NA
m&p-Xylene	ug/L	- -	- -	- -	- -	NA	1 U	2 U [2 U]	NA
Methyl acetate	ug/L	- -	- -	- -	- -	NA	80 J	5 U [5 U]	NA
Methyl tert-butyl ether	ug/L	{ID}	7,100 {(X)}	47,000,000 {(S)}	46,800,000	NA	5 U	5 U [5 U]	NA
Methylcyclohexane	ug/L	- -	- -	- -	- -	NA	20 U	1 U [1 U]	NA
Methylene Chloride	ug/L	{ID}	1,500 {(X)}	1,400,000	17,000,000	NA	0.4 J	5 U [5 U]	NA
o-Xylene	ug/L	- -	- -	- -	- -	NA	1 U	1 U [1 U]	NA
Styrene	ug/L	140,000	80 {(X)}	310,000 {(S)}	310,000	NA	1 U	1 U [1 U]	NA
Tetrachloroethene	ug/L	{ID}	60 {(X)}	170,000	200,000	NA	1 U	1 U [1 U]	NA
Toluene	ug/L	61,000	270	530,000 {(S)}	526,000	NA	0.2 J	1 U [1 U]	NA
trans-1,2-Dichloroethene	ug/L	230,000	1,500 {(X)}	200,000	6,300,000	NA	1 U	1 U [1 U]	NA
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	NA	1 U	1 U [1 U]	NA
Trichloroethene	ug/L	{ID}	200 {(X)}	4,900	1,100,000	NA	0.4 J	1 U [1 U]	NA

Table B-1

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-05-10 04/02/03	RFI-05-10 10/12/04	RFI-05-21 09/25/01	RFI-05-21 03/27/03
Trichlorofluoromethane	ug/L	{ID}	{NA}	1,100,000 {(S)}	1,100,000	NA	1 U	1 U [1 U]	NA
Vinyl Chloride	ug/L	33,000	13 {(X)}	13,000	2,760,000	NA	1 U	1 U [1 U]	NA
Xylenes (total)	ug/L	70,000	41	190,000 {(S)}	186,000	NA	1 U	1 U [1 U]	NA
SVOC									
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	NA	NA	5 U [5 U]	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	NA	NA	5 U [5 U]	NA
2,4,5-Trichlorophenol	ug/L	{ID}	{NA}	{NLV}	1,200,000	NA	NA	5 U [5 U]	NA
2,4,6-Trichlorophenol	ug/L	{ID}	5	{NLV}	800,000	NA	NA	4 U [4 U]	NA
2,4-Dichlorophenol	ug/L	{ID}	11	{NLV}	4,500,000	NA	NA	10 U [10 U]	NA
2,4-Dimethylphenol	ug/L	{ID}	380	{NLV}	7,870,000	NA	NA	5 U [5 U]	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	NA	NA	20 U [20 U]	NA
2,4-Dinitrotoluene	ug/L	{ID}	{NA}	{NLV}	270,000	NA	NA	5 U [5 U]	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	NA	NA	5 U [5 U]	NA
2-Chloronaphthalene	ug/L	{ID}	{NA}	{ID}	6,740	NA	NA	5 U [5 U]	NA
2-Chlorophenol	ug/L	{ID}	18	1,100,000	22,000,000	NA	NA	5 U [5 U]	NA
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	NA	NA	5 U [5 U]	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	NA	NA	5 U [5 U]	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	20 U [20 U]	NA
2-Nitrophenol	ug/L	{ID}	{ID}	{NLV}	2,500,000	NA	NA	5 U [5 U]	NA
3&4-Methylphenol	ug/L	- -	- -	- -	- -	NA	NA	10 U [10 U]	NA
3,3'-Dichlorobenzidine	ug/L	{ID}	0.3 {(M); 0.2}	{NLV}	3,110	NA	NA	**20 U [20 U]**	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	20 U [20 U]	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	NA	NA	20 U [20 U]	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	NA	5 U [5 U]	NA
4-Chloro-3-Methylphenol	ug/L	{ID}	7.4	{NLV}	3,900,000	NA	NA	5 U [5 U]	NA
4-Chloroaniline	ug/L	- -	- -	- -	- -	NA	NA	20 U [20 U]	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	NA	5 U [5 U]	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	20 U [20 U]	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	NA	NA	20 U [20 U]	NA
Acenaphthene	ug/L	{ID}	38	4,200 {(S)}	4,240	NA	NA	5 U [5 U]	NA
Acenaphthylene	ug/L	{ID}	{ID}	3,900 {(S)}	3,930	NA	NA	5 U [5 U]	NA
Acetophenone	ug/L	{ID}	{ID}	6,100,000 {(S)}	6,100,000	NA	NA	5 U [5 U]	NA
Anthracene	ug/L	{ID}	{ID}	43 {(S)}	43.4	NA	NA	5 U [5 U]	NA
Atrazine	ug/L	{ID}	7.3	{NLV}	70,000	NA	NA	5 U [5 U]	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	NA	NA	5 U [5 U]	NA
Benzo(a)anthracene	ug/L	{ID}	{ID}	{NLV}	9.4	NA	NA	1 U [1 U]	NA
Benzo(a)pyrene	ug/L	{ID}	{ID}	{NLV}	1.62	NA	NA	**2 U [2 U]**	NA
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	{ID}	1.5	NA	NA	**2 U [2 U]**	NA
Benzo(g,h,i)perylene	ug/L	{ID}	{ID}	{NLV}	0.26	NA	NA	**5 U [5 U]**	NA
Benzo(k)fluoranthene	ug/L	{ID}	{NA}	{NLV}	0.8	NA	NA	**5 U [5 U]**	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	NA	NA	5 U [5 U]	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	1 {(M); 0.79}	210,000	17,200,000	NA	NA	1 U [1 U]	NA
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	25	{NLV}	340	NA	NA	5 U [5 U]	NA
Butylbenzylphthalate	ug/L	{ID}	67 {(X)}	{NLV}	2,690	NA	NA	5 U [5 U]	NA
Caprolactam	ug/L	{NA}	{NA}	{NLV}	5,250,000,000	NA	NA	10 U [10 U]	NA
Carbazole	ug/L	{ID}	10 {(M); 4.0}	{NLV}	7,480	NA	NA	10 U [10 U]	NA
Chrysene	ug/L	{ID}	{ID}	{ID}	1.6	NA	NA	**5 U [5 U]**	NA
Dibenzo(a,h)anthracene	ug/L	{ID}	{ID}	{NLV}	2.49	NA	NA	2 U [2 U]	NA

Table B-1

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-05-10 04/02/03	RFI-05-10 10/12/04	RFI-05-21 09/25/01	RFI-05-21 03/27/03
Dibenzofuran	ug/L	{ID}	4	10,000 {(S)}	10,000	NA	NA	4 U [4 U]	NA
Diethylphthalate	ug/L	{NA}	110	{NLV}	1,080,000	NA	NA	5 U [5 U]	NA
Dimethylphthalate	ug/L	{NA}	{NA}	{NLV}	4,190,000	NA	NA	5 U [5 U]	NA
Di-n-Butylphthalate	ug/L	{NA}	9.7	{NLV}	11,200	NA	NA	5 U [5 U]	NA
Di-n-Octylphthalate	ug/L	{ID}	{ID}	{NLV}	3,000	NA	NA	5 U [5 U]	NA
Fluoranthene	ug/L	{ID}	1.6	210 {(S)}	206	NA	NA	**2 U [2 U]**	NA
Fluorene	ug/L	{ID}	12	2,000 {(S)}	1,980	NA	NA	5 U [5 U]	NA
Hexachlorobenzene	ug/L	{ID}	0.2 {(M); 0.0003}	3,000	6,200	NA	NA	**1 U [1 U]**	NA
Hexachlorobutadiene	ug/L	{ID}	0.053	3,200 {(S)}	3,230	NA	NA	**5 U [5 U]**	NA
Hexachlorocyclopentadiene	ug/L	{ID}	{ID}	420	1,800	NA	NA	5 U [5 U]	NA
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	NA	NA	5 U [5 U]	NA
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{ID}	{NLV}	0.022	NA	NA	**2 U [2 U]**	NA
Isophorone	ug/L	{ID}	1,300 {(X)}	{NLV}	12,000,000	NA	NA	5 U [5 U]	NA
Methylphenols, Total	ug/L	{NA}	30 {(M); 25}	{NLV}	28,000,000	NA	NA	5 U [5 U]	NA
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	NA	NA	5 U [5 U]	NA
Nitrobenzene	ug/L	{NA}	180 {(X)}	550,000	2,090,000	NA	NA	2 U [2 U]	NA
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NA}	{NLV}	9,890,000	NA	NA	5 U [5 U]	NA
N-Nitrosodiphenylamine	ug/L	{ID}	{NA}	{NLV}	35,100	NA	NA	5 U [5 U]	NA
Pentachlorophenol	ug/L	{ID}	2.8 {(G,X)}	{NLV}	1,850,000	NA	NA	**20 U [20 U]**	NA
Phenanthrene	ug/L	{ID}	2 {(M); 1.4}	1,000 {(S)}	1,000	NA	NA	**5 U [5 U]**	NA
Phenol	ug/L	{NA}	450	{NLV}	82,800,000	NA	NA	5 U [5 U]	NA
Pyrene	ug/L	{ID}	{ID}	140 {(S)}	135	NA	NA	5 U [5 U]	NA
PCB									
Aroclor-1016	ug/L	- -	- -	- -	- -	NA	NA	0.1 U [0.1 U]	NA
Aroclor-1221	ug/L	- -	- -	- -	- -	NA	NA	0.1 U [0.1 U]	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	NA	NA	0.1 U [0.1 U]	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	NA	NA	0.1 U [0.1 U]	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	NA	NA	0.1 U [0.1 U]	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	NA	NA	0.1 U [0.1 U]	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	NA	NA	0.1 U [0.1 U]	NA
Total PCBs	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	NA	NA	0.1 U [0.1 U]	NA
PCB-Dissolved									
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.1 U [0.1 U]	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.1 U [0.1 U]	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.1 U [0.1 U]	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.1 U [0.1 U]	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.1 U [0.1 U]	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.1 U [0.1 U]	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.1 U [0.1 U]	NA
Total PCBs (Dissolved)	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	NA	NA	0.1 U [0.1 U]	NA
Inorganic									
Antimony	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	1.2 U	NA	NA	1.2 U
Arsenic	ug/L	{ID}	10	{NLV}	{NA}	0.85 J	NA	NA	**35 (GSI (2013))**
Barium	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	220	NA	NA	430
Beryllium	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	0.4 U	NA	NA	0.4 U
Cadmium	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	3.1	NA	NA	0.2 U
Chromium Total	ug/L	- -	170 {(G,X)}	- -	- -	1.5	NA	NA	1.3
Cobalt	ug/L	{ID}	100	{NLV}	{NA}	99	NA	NA	2.9

Table B-1

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-05-10 04/02/03	RFI-05-10 10/12/04	RFI-05-21 09/25/01	RFI-05-21 03/27/03
Copper	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	7.8	NA	NA	1.8
Cyanide (total)	ug/L	{ID}	5.2	{NLV}	{NA}	2.4 J	NA	1.6 J [1.4 J]	5 U
Lead	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	1.7	NA	NA	0.16 J
Manganese	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	1,900 J	NA	NA	540
Mercury	ug/L	{ID}	0.0013	56 {(S)}	56	**0.2 U**	NA	**0.2 U [0.2 U]**	**0.291 (GSI (2013))**
Nickel	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	**220 (GSI (2013))**	15	NA	16
Selenium	ug/L	{ID}	5	{NLV}	{NA}	4.1	NA	NA	1.6 U
Silver	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	**0.4 U**	NA	NA	**0.4 U**
Thallium	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	0.63	NA	NA	0.2 U
Vanadium	ug/L	{ID}	27	{NLV}	{NA}	0.8 U	NA	NA	0.8 U
Zinc	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	34	NA	NA	18
Inorganic-Dissolved									
Antimony (Dissolved)	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	NA	NA	1.2 U [1.2 U]	NA
Arsenic (Dissolved)	ug/L	{ID}	10	{NLV}	{NA}	NA	NA	**46 (GSI (2013)) [47 (GSI (2013))]**	NA
Barium (Dissolved)	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	NA	NA	240 [240]	NA
Beryllium (Dissolved)	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	NA	NA	0.4 U [0.4 U]	NA
Cadmium (Dissolved)	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	NA	NA	0.2 U [0.2 U]	NA
Chromium Total (Dissolved)	ug/L	- -	170 {(G,X)}	- -	- -	NA	NA	0.6 U [0.64]	NA
Cobalt (Dissolved)	ug/L	{ID}	100	{NLV}	{NA}	NA	NA	2.7 [2.8]	NA
Copper (Dissolved)	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	NA	NA	**1.7 [28 (GSI (2013))]**	NA
Cyanide (dissolved)	ug/L	{ID}	5.2	{NLV}	{NA}	NA	NA	1.3 J [1.5 J]	NA
Lead (Dissolved)	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	NA	NA	0.4 U [0.4 U]	NA
Manganese (Dissolved)	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	NA	NA	360 J [350 J]	NA
Mercury (Dissolved)	ug/L	- -	0.0013	- -	- -	NA	NA	**0.2 U [0.2 U]**	NA
Nickel (Dissolved)	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	NA	NA	7.6 J [7.5 J]	NA
Selenium (Dissolved)	ug/L	{ID}	5	{NLV}	{NA}	NA	NA	1.8 J [1.4 U]	NA
Silver (Dissolved)	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	NA	NA	**0.4 U [0.4 U]**	NA
Thallium (Dissolved)	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	NA	NA	0.2 U [0.2 U]	NA
Vanadium (Dissolved)	ug/L	{ID}	27	{NLV}	{NA}	NA	NA	0.8 U [0.8 U]	NA
Zinc (Dissolved)	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	NA	NA	16 [13]	NA
Field Parameters									
Conductivity Field	mS/cm	- -	- -	- -	- -	NA	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	- -	NA	NA	NA	NA
pH Field	s.u.	- -	- -	- -	- -	NA	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	- -	NA	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	- -	NA	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	- -	NA	NA	NA	NA
Field Parameters-Filtered									
Dissolved Oxygen, Field	ug/L	- -	- -	- -	- -	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-05-10 2 - 4 01/31/14	MW-05-10 6 - 8 01/31/14	MW-05-13 1 - 3 01/31/14	MW-05-13 8 - 10 01/31/14	RFI-05-01 1 - 3 06/26/01	RFI-05-01 7 - 9 06/26/01	RFI-05-02 0 - 2 01/26/01
VOC															
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	0.039 U	0.039 U	0.039 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	0.077 U	0.079 U	0.039 U
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	0.17 U	0.17 U	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	0.039 U	0.039 U	0.039 U
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	0.039 U	0.039 U	0.039 U
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	0.039 U	0.039 U	0.039 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	0.17 U	0.17 U	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	0.17 U	0.17 U	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	**0.17 U**	**0.17 U**	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	0.077 U	0.079 U	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	0.039 U	0.039 U	0.039 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.078 U
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	0.039 U	0.039 U	0.039 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	0.077 U	0.079 U	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	0.077 U	0.079 U	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	0.28 U	0.28 U	0.28 U
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	0.28 U	0.28 U	0.17 U
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	0.28 U	0.28 U	0.17 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	0.28 U	0.28 U	0.36
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	0.039 U	0.039 U	0.039 U
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	0.077 U	0.079 U	0.039 U
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	0.077 U	0.079 U	0.039 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	0.17 U	0.17 U	0.17 UJ
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	0.17 U	0.17 U	0.17 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	0.039 U	0.039 U	0.039 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	0.039 U	0.039 U	0.039 U
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	0.17 U	0.17 U	0.17 U
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	0.039 U	0.039 U	0.039 U
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	0.17 U	0.17 U	0.17 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	0.039 U	0.039 U	0.039 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.039 U	0.039 U	0.039 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.17 U	0.17 U	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	0.077 U	0.079 U	0.039 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	0.077 U	0.079 U	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	0.039 U	0.039 U	0.039 U
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	0.17 U	0.17 U	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.077 U	0.079 U	0.088 J
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.17 U	0.17 U	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	0.28 U	0.28 U	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.17 U	0.17 U	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	0.17 UJ	0.17 UJ	0.17 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.039 U	0.039 U	0.039 U
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	0.039 U	0.039 U	0.039 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	0.039 U	0.039 U	0.039 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	0.039 U	0.039 U	0.039 U
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	0.039 U	0.039 U	0.039 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.039 U	0.039 U	0.039 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	0.039 U	0.039 U	0.039 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	0.077 U	0.079 U	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	0.039 U	0.039 U	0.039 U
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	0.039 U	0.039 U	0.039 U
SVOC															
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.19 U	0.19 U	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-05-10 2 - 4 01/31/14	MW-05-10 6 - 8 01/31/14	MW-05-13 1 - 3 01/31/14	MW-05-13 8 - 10 01/31/14	RFI-05-01 1 - 3 06/26/01	RFI-05-01 7 - 9 06/26/01	RFI-05-02 0 - 2 01/26/01
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	0.18 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	0.18 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	0.18 U
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	0.18 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.19 UJ	0.19 UJ	0.18 U
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.19 UJ	0.19 UJ	0.18 U
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.19 UJ	0.19 UJ	0.18 U
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.73 UJ	0.77 U	0.71 U
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.73 U	0.77 U	0.18 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	0.19 UJ	0.19 UJ	0.18 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.73 U	0.77 U	0.71 U
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.37 UJ	0.39 U	0.35 U
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.73 UJ	0.77 U	0.71 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.73 U	0.77 U	0.71 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.73 U	0.77 U	0.71 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.73 U	0.77 U	0.71 UJ
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.73 UJ	0.77 UJ	0.18 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.73 U	0.77 U	0.71 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.73 U	0.77 U	0.71 U
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	0.19 UJ	0.19 UJ	0.18 U
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	0.19 UJ	0.19 UJ	0.18 U
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	0.19 U	0.19 U	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	**0.19 U**	**0.19 U**	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.19 UJ	0.19 U	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.201 J	0.19 U	0.18 U
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.264 J	0.19 U	0.18 U
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	0.208 J	0.19 U	0.18 U
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.368 J	0.19 UJ	0.18 U
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.291 J	0.19 U	0.18 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.19 U	0.19 U	0.18 UJ
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	0.036 U	0.038 U	**0.18 U**
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.19 UJ	0.19 U	0.18 U
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.19 UJ	0.19 U	0.18 U
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.19 U	0.19 U	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	0.212 J	0.19 U	0.18 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.19 UJ	0.19 UJ	0.18 U
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.19 UJ	0.19 U	0.18 U
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	0.276	0.19 U	0.18 U
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	0.19 UJ	0.19 UJ	0.18 U

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
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Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-05-10 2 - 4 01/31/14	MW-05-10 6 - 8 01/31/14	MW-05-13 1 - 3 01/31/14	MW-05-13 8 - 10 01/31/14	RFI-05-01 1 - 3 06/26/01	RFI-05-01 7 - 9 06/26/01	RFI-05-02 0 - 2 01/26/01
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	**0.19 U**	**0.19 U**	**0.18 U**
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	0.19 U	0.19 U	0.18 UJ
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.27 J	0.19 UJ	0.18 U
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.19 UJ	0.19 UJ	0.18 U
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	0.073 UJ	0.077 UJ	0.18 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.73 U	0.77 U	0.18 U
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	0.0485 J	0.19 U	0.18 U
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	0.448 J	0.19 U	0.18 U
PCB															
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.038 U	0.04 U	0.035 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.038 U	0.04 U	0.035 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.038 U	0.04 U	0.035 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.038 U	0.04 U	0.035 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.038 U	0.04 U	0.035 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.038 U	0.04 U	0.035 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.038 U	0.04 U	0.035 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.038 U	0.04 U	0.035 U
Inorganic															
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	R	R	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	3.1	3.3	4.22
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	12	16	15.4 J
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.082 J	0.16	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	0.07	0.1	0.144
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	5	6.6	7.87
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	2 J	**2.7 J (GSIP (2013))**	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	4.6 J	5.1 J	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	0.039 J	0.047 J	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	3.5	4.6	5.89 J
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	**130 (GSIP (2013))**	**150 (GSIP (2013))**	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	**0.074 U**	**0.08 U**	0.0428
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	5.2 J	5.9 J	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	0.26 J	0.092 U	0.115
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	0.027 J	0.026 J	**0.19 U**
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.033 J	0.049 J	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	7.9	11	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	18	27	NA
Miscellaneous															
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	900,000	810,000 [870,000]	910,000	820,000	913,000	875,000	950,000

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-02 8 - 10 01/23/01	RFI-05-02 10 - 12 01/23/01	RFI-05-06 0 - 2 07/25/01	RFI-05-06 8 - 10 07/25/01	RFI-05-10 0 - 2 01/26/01
VOC													
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.042 U	0.036 U	0.036 U	0.039 U	0.039 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.042 U	0.036 U	0.073 U	0.079 U	0.039 U
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	0.16 U	0.17 U	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.042 U	0.036 U	0.036 U	0.039 U	0.039 U
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.042 U	0.036 U	0.036 U	0.039 U	0.039 U
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.042 U	0.036 U	0.036 U	0.039 U	0.039 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	0.16 U	0.17 UJ	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	0.16 U	0.17 U	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	**0.16 U**	**0.17 U**	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	0.073 U	0.079 U	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.042 U	0.036 U	0.036 U	0.039 U	0.039 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.084 U	0.073 U	NA	NA	0.078 U
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.042 U	0.036 U	0.036 U	0.039 U	0.039 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	0.073 U	0.079 U	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	0.073 U	0.079 U	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.3 U	0.26 U	0.26 U	0.28 U	0.28 U
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.18 U	0.16 U	0.26 U	0.28 U	0.17 U
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.18 U	0.16 U	0.26 U	0.28 U	0.17 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.3 U	0.26 U	0.26 UJ	0.28 UJ	0.38
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.042 U	0.036 U	0.036 U	0.039 U	0.039 U
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.042 U	0.036 U	0.073 U	0.079 U	0.039 U
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.042 U	0.036 U	0.073 U	0.079 U	0.039 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.18 UJ	0.16 UJ	0.16 U	0.17 U	0.17 UJ
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.18 U	0.16 U	0.16 U	0.17 U	0.17 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.042 U	0.036 U	0.036 U	0.039 U	0.039 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.042 U	0.036 U	0.036 U	0.039 U	0.039 U
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.18 U	0.16 U	0.16 U	0.17 U	0.17 U
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.042 U	0.036 U	0.036 U	0.039 U	0.039 U
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.18 U	0.16 U	0.16 U	0.17 U	0.17 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.042 U	0.036 U	0.036 U	0.039 U	0.039 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.042 U	0.036 U	0.036 U	0.039 U	0.039 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.16 U	0.17 U	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.042 U	0.036 U	0.073 U	0.079 U	0.039 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	0.073 U	0.079 U	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.042 U	0.036 U	0.036 U	0.039 U	0.039 U
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	0.16 U	0.17 U	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.084 U	0.073 U	0.073 U	0.079 U	0.078 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.03 J	0.034 J	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	0.26 U	0.28 U	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.16 U	0.17 U	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.18 U	0.16 U	0.16 UJ	0.17 U	0.17 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.042 U	0.036 U	0.036 U	0.039 U	0.039 U
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.042 U	0.036 U	0.036 U	0.039 U	0.039 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.042 U	0.036 U	0.036 U	0.039 U	0.039 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.042 U	0.036 U	0.036 U	0.039 U	0.039 U
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.042 U	0.036 U	0.036 U	0.039 U	0.039 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.042 U	0.036 U	0.036 U	0.039 U	0.039 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.042 U	0.036 U	0.036 U	0.03 J	0.57
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	0.073 U	0.079 U	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.042 U	0.036 U	0.036 U	0.039 U	0.039 U
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.042 U	0.036 U	0.036 U	0.039 U	0.039 U
SVOC													
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.18 U	0.19 U	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-02 8 - 10 01/23/01	RFI-05-02 10 - 12 01/23/01	RFI-05-06 0 - 2 07/25/01	RFI-05-06 8 - 10 07/25/01	RFI-05-10 0 - 2 01/26/01
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.18 U	0.18 U	NA	NA	0.18 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.18 U	0.18 U	NA	NA	0.18 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.18 U	0.18 U	NA	NA	0.18 U
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.18 U	0.18 U	NA	NA	0.18 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.7 U	0.69 UJ	0.75 UJ	0.71 U
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.18 UJ	0.69 U	0.75 U	0.18 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.7 U	0.69 U	0.75 U	0.71 U
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.35 U	0.35 U	0.35 UJ	0.38 UJ	0.35 U
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	0.7 UJ	0.7 UJ	0.69 U	0.75 UJ	0.71 UJ
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.7 U	0.69 U	0.75 U	0.71 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.7 U	0.7 U	0.69 UJ	0.75 U	0.71 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 UJ	0.7 UJ	0.69 U	0.75 U	0.71 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.69 U	0.75 U	0.18 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.7 U	0.69 U	0.75 U	0.71 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.7 U	0.69 U	0.75 U	0.71 U
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	0.18 U	0.19 U	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	**0.18 U**	**0.19 U**	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.18 U	0.19 U	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.113 J	0.18 UJ
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 UJ	0.18 UJ
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	0.18 U	0.18 U	0.124 J	0.415 J	0.18 UJ
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 UJ	0.18 UJ
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.279 J	0.18 UJ
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 UJ	0.18 UJ	0.18 U	0.19 U	0.18 UJ
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	**0.18 U**	**0.18 U**	0.034 U	0.037 U	**0.18 U**
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.108 J	0.19 UJ	0.18 UJ
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 UJ	0.18 UJ
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	0.18 U	0.19 UJ	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.18 U	0.037 J	0.173 J	0.18 UJ
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 UJ	0.18 UJ
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.096 J	0.19 U	0.18 U
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 UJ	0.18 UJ
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.18 U	0.18 U	0.048 J	0.103 J	0.18 U
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-02 8 - 10 01/23/01	RFI-05-02 10 - 12 01/23/01	RFI-05-06 0 - 2 07/25/01	RFI-05-06 8 - 10 07/25/01	RFI-05-10 0 - 2 01/26/01
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**0.18 U**	**0.18 U**	**0.18 U**	**0.19 U**	**0.18 U**
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	0.18 UJ	0.18 UJ	0.18 U	0.19 U	0.18 UJ
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.0964 J	0.19 UJ	0.18 UJ
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.18 U	0.18 U	0.069 U	0.075 U	0.18 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.69 U	0.75 U	0.18 U
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	0.18 U	0.18 U	0.18 U	0.0559 J	0.18 U
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.18 U	0.18 U	0.0487 J	0.19 U	0.18 UJ
PCB													
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	0.036 U	0.039 U	0.035 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	0.036 U	0.039 U	0.035 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	0.036 U	0.039 U	0.035 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	0.036 U	0.039 U	0.035 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	0.036 U	0.039 U	0.035 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	0.036 U	0.11	0.035 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	0.036 U	0.039 U	0.035 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	NA	NA	0.036 U	0.11	0.035 U
Inorganic													
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	0.19 UJ	0.21 U	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	**7.55 J (GSIP (2013),SDBL (2013))**	**5.73 J (GSIP (2013))**	3.1	**5.3 (GSIP (2013))**	**4.75 (GSIP (2013))**
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	44.1 J	8.09 J	19	43	15.5 J
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	0.16	0.29	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	0.123 J	0.112 J	0.11	0.28	0.128
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	13.4	6.9	6.9	14	6.71
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	**2.7 (GSIP (2013))**	**4.6 (GSIP (2013))**	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	6.5 J	26 J	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	**0.2 U**	**0.2 U**	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	7.13 J	6.75 J	8.9 J	**25 J (SDBL (2013))**	6.43 J
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	**130 J (GSIP (2013))**	**240 J (GSIP (2013))**	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	0.021 U	0.02 U	**0.072 U**	**0.075 U**	0.021 U
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	7	15	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	0.074 U	0.09 U	0.22 UJ	0.14 U	0.107
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	**0.19 U**	**0.23 U**	0.014 J	0.069 J	**0.17 U**
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	0.076 J	0.12 J	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	11	17	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	27	**48 (SDBL (2013))**	NA
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	953,000	955,000	971,000	899,000	941,000

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-10 8 - 10 01/23/01	RFI-05-10 10 - 12 01/23/01	RFI-05-11 0 - 2 01/26/01	RFI-05-11 8 - 10 01/23/01	RFI-05-11 10 - 12 01/23/01
VOC													
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.07 U	0.083 U [0.09 U]	0.082 U	0.087 U	0.084 U
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.25 U	0.3 U [0.32 U]	0.29 U	0.31 U	0.3 U
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.15 U	0.18 U [0.19 U]	0.18 U	0.19 U	0.18 U
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.15 U	0.18 U [0.19 U]	0.18 U	0.19 U	0.18 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.25 U	0.3 U [0.32 U]	0.4	0.31 U	0.3 U
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.15 UJ	0.18 UJ [0.19 UJ]	0.18 UJ	0.19 UJ	0.18 UJ
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.15 U	0.18 U [0.19 U]	0.18 U	0.19 U	0.18 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.15 U	0.18 U [0.19 U]	0.18 U	0.19 U	0.18 U
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.15 U	0.18 U [0.19 U]	0.18 U	0.19 U	0.18 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.07 U	0.083 U [0.09 U]	0.082 U	0.087 U	0.084 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.15 U	0.18 U [0.19 U]	0.18 U	0.19 U	0.18 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.035 U	0.042 U [0.045 U]	0.094	0.043 U	0.042 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.035 U	0.042 U [0.045 U]	0.041 U	0.043 U	0.042 U
SVOC													
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-10 8 - 10 01/23/01	RFI-05-10 10 - 12 01/23/01	RFI-05-11 0 - 2 01/26/01	RFI-05-11 8 - 10 01/23/01	RFI-05-11 10 - 12 01/23/01
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	**0.89 U**
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	**0.89 U**
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	**0.89 U**
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	**0.89 U**
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	**0.89 U**
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.71 U	0.74 U [0.75 U]	0.71 U	0.7 U	3.5 U
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 UJ [0.19 U]	0.18 U	0.18 UJ	0.89 UJ
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	**0.89 U**
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.71 U	0.74 U [0.75 U]	0.71 U	0.7 U	3.5 U
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.35 U	0.36 U [0.37 U]	0.35 U	0.34 U	1.7 U
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	0.71 UJ	0.74 UJ [0.75 UJ]	0.71 U	0.7 UJ	**3.5 UJ**
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.71 U	0.74 U [0.75 UJ]	0.71 U	0.7 U	3.5 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.71 U	0.74 U [0.75 U]	0.71 U	0.7 U	3.5 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	**0.89 U**
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.71 UJ	0.74 UJ [0.75 UJ]	0.71 UJ	0.7 UJ	3.5 UJ
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U [0.19 UJ]	0.18 U	0.18 U	0.89 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.71 U	0.74 U [0.75 U]	0.71 U	0.7 U	3.5 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.71 U	0.74 U [0.75 U]	0.71 U	0.7 U	3.5 U
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 U [0.19 UJ]	0.18 U	0.18 U	0.89 U
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	0.18 UJ	0.19 U [0.19 UJ]	0.18 U	0.18 U	0.89 U
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.19 UJ]	0.18 U	0.18 U	0.89 U
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 U [0.19 UJ]	0.18 U	0.18 U	0.89 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 UJ	0.19 UJ [0.19 UJ]	0.18 UJ	0.18 UJ	0.89 UJ
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	**0.18 U**	**0.19 U [0.19 U]**	**0.18 U**	**0.18 U**	**0.89 U**
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 U [0.19 UJ]	0.18 U	0.18 U	0.89 U
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.19 UJ]	0.18 U	0.18 U	0.89 U
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 U [0.19 UJ]	0.18 U	0.18 U	0.89 U
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.18 U	0.19 U [0.19 U]	0.21	0.18 U	0.89 U
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-10 8 - 10 01/23/01	RFI-05-10 10 - 12 01/23/01	RFI-05-11 0 - 2 01/26/01	RFI-05-11 8 - 10 01/23/01	RFI-05-11 10 - 12 01/23/01
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	**0.89 U**
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**0.18 U**	**0.19 U [0.19 U]**	**0.18 U**	**0.18 U**	**0.89 U**
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	0.18 UJ	0.19 UJ [0.19 UJ]	0.18 UJ	0.18 UJ	0.89 UJ
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 U [0.19 UJ]	0.18 U	0.18 U	0.89 U
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	**0.89 U**
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	0.28 J	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	**5.6 (GSIP (2013))**
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.19 U]	0.18 U	0.18 U	0.89 U
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.18 U	0.19 U [0.19 U]	0.23	0.18 U	0.89 U
PCB													
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U	0.037 U [0.037 U]	0.035 U	0.035 U	0.88 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U	0.037 U [0.037 U]	0.035 U	0.035 U	0.88 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U	0.037 U [0.037 U]	0.035 U	0.035 U	0.88 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U	0.037 U [0.037 U]	0.035 U	0.035 U	0.88 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U	0.037 U [0.037 U]	0.035 U	0.035 U	0.88 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U	0.037 U [0.037 U]	0.035 U	0.035 U	0.88 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U	0.037 U [0.037 U]	0.035 U	0.035 U	0.88 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.036 U	0.037 U [0.037 U]	0.035 U	0.035 U	0.88 U
Inorganic													
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	**5.74 J (GSIP (2013))**	**4.24 J [5.03 J (GSIP (2013))]**	4.48	**4.67 J (GSIP (2013))**	4.41 J
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	13 J	9.66 J [11.3 J]	13.4 J	13.8 J	12.7 J
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	0.112 J	0.112 J [0.109 J]	0.127	0.163 J	0.238 J
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	6.39	5.19 [6.22]	5.66	6.26	8.37
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	6.59 J	4.1 J [5.17 J]	17.9 J	5.61 J	6.34 J
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	0.022 U	0.0299 [0.022 U]	0.02 U	0.021 U	0.021 U
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	0.078 U	0.126 [0.162]	0.0836	0.091 U	0.145
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	**0.2 U**	**0.25 U [0.24 U]**	**0.337 (GSIP (2013))**	**0.23 U**	**0.21 U**
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	938,000	910,000 [895,000]	946,000	963,000	951,000

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-13 0 - 2 01/26/01	RFI-05-13 8 - 10 01/22/01	RFI-05-13 10 - 12 01/22/01	RFI-05-14 0 - 2 01/26/01	RFI-05-14 8 - 10 01/22/01
VOC													
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.041 U	0.042 U	0.042 U	0.039 U	0.041 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.041 U	0.042 U	0.042 U	0.039 U	0.041 U
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.041 U	0.042 U	0.042 U	0.039 U	0.041 U
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.041 U	0.042 U	0.042 U	0.039 U	0.041 U
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.041 U	0.042 U	0.042 U	0.039 U	0.041 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.041 U	0.042 U	0.042 U	0.039 U	0.041 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.081 U	0.084 U	0.085 U	0.078 U	0.082 U
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.041 U	0.042 U	0.042 U	0.039 U	0.041 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.29 U	0.3 U	0.3 U	0.28 U	0.29 U
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.38	0.3 U	0.3 U	0.39	0.29 U
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.041 U	0.042 U	0.042 U	0.039 U	0.041 U
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.041 U	0.042 U	0.042 U	0.039 U	0.041 U
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.041 U	0.042 U	0.042 U	0.039 U	0.041 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.17 UJ	0.18 UJ	0.18 UJ	0.17 UJ	0.18 UJ
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.041 U	0.042 U	0.042 U	0.039 U	0.041 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.041 U	0.042 U	0.042 U	0.039 U	0.041 U
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.041 U	0.042 U	0.042 U	0.039 U	0.041 U
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.041 U	0.042 U	0.042 U	0.2	0.041 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.041 U	0.042 U	0.042 U	0.039 U	0.041 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.041 U	0.042 U	0.042 U	0.039 U	0.041 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.041 U	0.042 U	0.042 U	0.039 U	0.041 U
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.081 U	0.084 U	0.085 U	0.078 U	0.082 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.041 U	0.042 U	0.042 U	0.039 U	0.041 U
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.041 U	0.042 U	0.042 U	0.039 U	0.041 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.041 U	0.042 U	0.042 U	0.039 U	0.041 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.041 U	0.042 U	0.042 U	0.039 U	0.041 U
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.041 U	0.042 U	0.042 U	0.039 U	0.041 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.041 U	0.042 U	0.042 U	0.039 U	0.041 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.041 U	0.042 U	0.042 U	1.9	0.16
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.041 U	0.042 U	0.042 U	0.039 U	0.041 U
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.041 U	0.042 U	0.042 U	0.039 U	0.041 U
SVOC													
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-13 0 - 2 01/26/01	RFI-05-13 8 - 10 01/22/01	RFI-05-13 10 - 12 01/22/01	RFI-05-14 0 - 2 01/26/01	RFI-05-14 8 - 10 01/22/01
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.71 U	0.73 U	0.79 U	0.7 U	0.73 U
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 UJ	0.2 UJ	0.18 U	0.19 UJ
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.2 U	0.18 UJ	0.19 U
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.71 U	0.73 U	0.79 U	0.7 U	0.73 U
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.35 U	0.36 U	0.39 U	0.35 U	0.36 U
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	0.71 U	0.73 UJ	0.79 UJ	0.7 U	0.73 UJ
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.71 U	0.73 U	0.79 U	0.7 U	0.73 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.71 U	0.73 U	0.79 U	0.7 U	0.73 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 UJ	0.19 U	0.2 U	0.18 UJ	0.19 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.71 U	0.73 UJ	0.79 UJ	0.7 U	0.73 UJ
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.71 U	0.73 U	0.79 U	0.7 U	0.73 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.71 U	0.73 U	0.79 U	0.7 U	0.73 U
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 U	0.2 U	0.18 UJ	0.19 U
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	0.18 UJ	0.19 U	0.2 U	0.18 UJ	0.19 U
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 U	0.2 U	0.18 UJ	0.19 U
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 U	0.2 U	0.18 UJ	0.19 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 UJ	0.19 UJ	0.2 UJ	0.18 UJ	0.19 UJ
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	**0.18 U**	**0.19 U**	**0.2 U**	**0.18 U**	**0.19 U**
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 U	0.2 U	0.18 UJ	0.19 U
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 U	0.2 U	0.18 UJ	0.19 U
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-13 0 - 2 01/26/01	RFI-05-13 8 - 10 01/22/01	RFI-05-13 10 - 12 01/22/01	RFI-05-14 0 - 2 01/26/01	RFI-05-14 8 - 10 01/22/01
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**0.18 U**	**0.19 U**	**0.2 U**	**0.18 UJ**	**0.19 U**
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	0.18 U	0.19 UJ	0.2 UJ	0.18 U	0.19 UJ
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.2 U	0.18 UJ	0.19 U
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.18 U	0.19 U	0.2 U	0.18 U	0.19 U
PCB													
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.035 U	0.036 U	0.039 U	0.035 U	0.036 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.035 U	0.036 U	0.039 U	0.035 U	0.036 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.035 U	0.036 U	0.039 U	0.035 U	0.036 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.035 U	0.036 U	0.039 U	0.035 U	0.036 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.035 U	0.036 U	0.039 U	0.035 U	0.036 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.035 U	0.036 U	0.039 U	0.035 U	0.036 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.035 U	0.036 U	0.039 U	0.035 U	0.036 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.035 U	0.036 U	0.039 U	0.035 U	0.036 U
Inorganic													
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	**4.68 (GSIP (2013))**	**4.92 J (GSIP (2013))**	**7.38 J (GSIP (2013),SDBL (2013))**	**4.72 (GSIP (2013))**	3.39 J
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	17 J	22.9 J	21.5 J	17.4 J	8.2 J
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	0.117	0.127 J	0.135 J	0.132	0.0855 J
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	6.95	12.2	8.8	9.11	9.15
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	8.47 J	10.9 J	7.34 J	6.83 J	4.66 J
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	0.021 U	0.022 U	0.0379	0.021 U	0.0269
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	0.0977	0.13	0.095 U	0.125	0.1 U
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	**0.18 U**	**0.2 U**	**0.24 U**	**0.19 U**	**0.25 U**
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	949,000	914,000	848,000	951,000	915,000

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-14 10 - 12 01/22/01	RFI-05-15 0.9 - 2.9 09/08/01	RFI-05-15 6.9 - 8.9 09/08/01	RFI-05-16 0.8 - 2.8 09/08/01
VOC												
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.041 U	0.036 U [0.036 U]	0.04 U	0.044 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.041 U	0.072 U [0.073 U]	0.08 U	0.087 U
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	0.15 U [0.16 U]	0.17 U	0.19 U
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.041 U	0.036 U [0.036 U]	0.04 U	0.044 U
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.041 U	0.036 U [0.036 U]	0.04 U	0.044 U
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.041 U	0.036 U [0.036 U]	0.04 U	0.044 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	0.15 U [0.16 U]	0.17 U	0.19 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	0.15 U [0.16 U]	0.17 U	0.19 U
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	**0.15 U [0.16 U]**	**0.17 U**	**0.19 U**
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	0.072 U [0.073 U]	0.08 U	0.087 U
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.041 U	0.036 U [0.036 U]	0.04 U	0.044 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.081 U	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.041 U	0.036 U [0.036 U]	0.04 U	0.044 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	0.072 U [0.073 U]	0.08 U	0.087 U
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	0.072 U [0.073 U]	0.08 U	0.087 U
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.29 U	0.032 J [0.037 J]	0.037 J	0.068 J
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.17 U	0.26 U [0.26 U]	0.28 U	0.31 U
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.17 U	0.26 U [0.26 U]	0.28 U	0.31 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.29 U	0.26 U [0.26 U]	0.28 U	0.31 U
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.041 U	0.036 U [0.036 U]	0.04 U	0.044 U
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.041 U	0.072 U [0.073 U]	0.08 U	0.087 U
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.041 U	0.072 U [0.073 U]	0.08 U	0.087 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.17 UJ	0.15 U [0.16 U]	0.17 U	0.19 U
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.17 U	0.15 U [0.16 U]	0.17 U	0.19 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.041 U	0.036 U [0.036 U]	0.04 U	0.044 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.041 U	0.036 U [0.036 U]	0.04 U	0.044 U
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.17 U	0.15 U [0.16 U]	0.17 U	0.19 U
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.041 U	0.036 U [0.036 U]	0.04 U	0.044 U
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.17 U	0.15 U [0.16 U]	0.17 U	0.19 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.041 U	0.036 U [0.036 U]	0.04 U	0.044 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.041 U	0.036 U [0.036 U]	0.04 U	0.044 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.15 U [0.16 U]	0.17 U	0.19 U
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.041 U	0.072 U [0.073 U]	0.08 U	0.087 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	0.072 U [0.073 U]	0.08 U	0.087 U
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.041 U	0.036 U [0.036 U]	0.04 U	0.044 U
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	0.15 U [0.16 U]	0.17 U	0.19 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.081 U	0.072 U [0.073 U]	0.08 U	0.087 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.15 U [0.16 U]	0.044 J	0.19 U
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	0.26 U [0.26 U]	0.28 U	0.31 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.15 U [0.16 U]	0.17 U	0.19 U
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.17 U	0.15 U [0.16 U]	0.17 U	0.19 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.041 U	0.036 U [0.036 U]	0.04 U	0.044 U
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.041 U	0.036 U [0.036 U]	0.04 U	0.044 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.041 U	0.036 U [0.036 U]	0.04 U	0.044 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.041 U	0.036 U [0.036 U]	0.04 U	0.044 U
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.041 U	0.036 U [0.036 U]	0.04 U	0.044 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.041 U	0.036 U [0.036 U]	0.04 U	0.044 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.041 U	0.036 U [0.036 U]	0.04 U	0.044 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	0.072 U [0.073 U]	0.08 U	0.087 U
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.041 U	0.036 U [0.036 U]	0.04 U	0.044 U
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.041 U	0.036 U [0.036 U]	0.04 U	0.044 U
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.18 U [0.18 U]	0.19 U	0.21 U

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-14 10 - 12 01/22/01	RFI-05-15 0.9 - 2.9 09/08/01	RFI-05-15 6.9 - 8.9 09/08/01	RFI-05-16 0.8 - 2.8 09/08/01
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.2 U	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.2 U	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.2 U	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.2 U	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.18 U [0.18 U]	0.19 U	0.21 U
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U [0.18 U]	0.19 U	0.21 U
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U [0.18 U]	0.19 U	0.21 U
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U [0.18 U]	0.19 U	0.21 U
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U [0.18 U]	0.19 U	0.21 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.79 U	0.69 U [0.7 U]	0.75 U	0.84 U
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.2 U	0.69 U [0.7 U]	0.75 U	0.84 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.18 U [0.18 U]	0.19 U	0.21 U
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.2 U	0.18 U [0.18 U]	0.19 U	0.21 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	0.2 U	0.18 U [0.18 U]	0.19 U	0.21 U
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.375 J	0.18 U [0.18 U]	0.122 J	0.21 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.18 UJ [0.18 U]	0.19 U	0.21 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.79 U	0.69 U [0.7 U]	0.75 U	0.84 U
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.18 U [0.18 U]	0.19 U	0.21 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.39 U	0.35 U [0.35 UJ]	0.38 UJ	0.43 UJ
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	0.79 UJ	0.69 U [0.7 U]	0.75 UJ	0.84 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.79 UJ	0.69 U [0.7 U]	0.75 U	0.84 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.79 UJ	0.69 U [0.7 U]	0.75 U	0.84 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 UJ	0.18 U [0.18 U]	0.19 U	0.21 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.18 U [0.18 U]	0.19 U	0.21 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.79 UJ	0.69 U [0.7 U]	0.75 U	0.84 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 UJ	0.69 U [0.7 U]	0.75 U	0.84 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.79 U	0.69 U [0.7 U]	0.75 U	0.84 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.79 U	0.69 U [0.7 U]	0.75 U	0.84 U
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	0.2 U	0.18 U [0.18 U]	0.19 U	0.21 U
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.2 U	0.18 U [0.18 U]	0.19 U	0.21 U
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	0.18 U [0.18 U]	0.19 U	0.21 U
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.2 UJ	0.18 U [0.18 U]	0.19 U	0.21 U
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	**0.18 U [0.18 U]**	**0.19 U**	**0.21 U**
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.18 U [0.18 U]	0.19 U	0.21 U
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.2 UJ	0.18 U [0.18 U]	0.19 UJ	0.21 U
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	0.2 UJ	0.18 U [0.18 U]	0.19 UJ	0.21 U
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	0.2 UJ	0.18 U [0.18 U]	0.19 UJ	0.21 U
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	0.2 UJ	0.18 U [0.18 U]	0.19 UJ	0.21 U
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	0.2 UJ	0.18 U [0.18 U]	0.19 UJ	0.21 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 UJ	0.18 U [0.18 U]	0.19 U	0.21 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	**0.2 U**	0.034 U [0.034 U]	0.037 U	0.041 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.2 UJ	0.18 U [0.18 U]	0.181 J	0.159 J
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.2 UJ	0.18 U [0.18 U]	0.19 UJ	0.21 U
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	0.18 U [0.18 U]	0.19 U	0.21 U
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	0.2 UJ	0.18 U [0.18 U]	0.19 UJ	0.21 U
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	0.2 UJ	0.18 U [0.18 U]	0.219 J	0.21 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	0.2 UJ	0.18 U [0.18 U]	0.19 UJ	0.21 U
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	0.2 U	0.18 U [0.18 U]	0.19 U	0.21 U
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U [0.18 U]	0.19 U	0.21 U
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 UJ	0.18 U [0.18 U]	0.19 U	0.21 U
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 UJ	0.18 U [0.18 U]	0.19 UJ	0.21 U
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.2 UJ	0.18 U [0.18 U]	0.19 UJ	0.21 U
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.2 UJ	0.18 U [0.18 U]	0.0983 J	0.21 U
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.2 U	0.18 U [0.18 U]	0.146 J	0.21 U

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-14 10 - 12 01/22/01	RFI-05-15 0.9 - 2.9 09/08/01	RFI-05-15 6.9 - 8.9 09/08/01	RFI-05-16 0.8 - 2.8 09/08/01
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	0.2 UJ	0.18 U [0.18 U]	0.19 U	0.21 U
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**0.2 U**	**0.18 U [0.18 U]**	**0.19 U**	**0.21 U**
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	0.2 UJ	0.18 U [0.18 U]	0.19 U	0.21 U
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.2 U	0.18 U [0.18 U]	0.19 U	0.21 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.2 UJ	0.18 U [0.18 U]	0.19 UJ	0.21 U
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U [0.18 U]	0.19 U	0.21 U
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U [0.18 U]	0.19 U	0.21 U
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.257 J	0.18 U [0.18 U]	0.19 U	0.21 U
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.2 U	0.069 U [0.07 U]	0.075 U	0.084 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U [0.18 U]	0.19 U	0.21 U
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.2 UJ	0.18 U [0.18 U]	0.19 U	0.21 U
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	0.2 UJ	0.69 U [0.7 U]	0.75 U	0.84 U
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	0.693 J	0.18 U [0.18 U]	0.41	0.21 U
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U [0.18 U]	0.19 U	0.21 U
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.2 UJ	0.18 U [0.18 U]	0.477	0.21 U
PCB												
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.036 U [0.036 U]	0.039 U	0.044 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.036 U [0.036 U]	0.039 U	0.044 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.036 U [0.036 U]	0.039 U	0.044 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.036 U [0.036 U]	0.039 U	0.044 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.036 U [0.036 U]	0.039 U	0.044 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.036 U [0.036 U]	0.042	0.044 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.036 U [0.036 U]	0.039 U	0.044 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.04 U	0.036 U [0.036 U]	0.042	0.044 U
Inorganic												
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	R [R]	R	R
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	**6.87 J (GSIP (2013),SDBL (2013))**	3.3 [3.7]	**6.9 (GSIP (2013),SDBL (2013))**	4.2
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	18.8 J	10 [14]	37	18
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	0.11 [0.14]	0.43	0.17
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	0.401 J	0.081 [0.095]	0.12	0.094
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	8.93	4.2 [5.7]	15	6.4
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	**2.3 (GSIP (2013)) [3.1 (GSIP (2013))]**	**7.6 (GSIP (2013),SDBL (2013))**	**3.1 (GSIP (2013))**
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	5.8 [6.8]	14	7
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	**0.2 U [0.2 U]**	**0.2 U**	**0.2 U**
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	6.21 J	5.1 [6.1]	12	6
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	**120 (GSIP (2013)) [160 (GSIP (2013))]**	**270 (GSIP (2013))**	**180 (GSIP (2013))**
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	0.024 U	**0.071 U [0.07 U]**	**0.079 U**	**0.088 U**
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	6.4 [8.3]	18	8.2
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	0.083 U	0.25 U [0.081 U]	0.1 U	0.11 U
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	**0.21 U**	0.039 J [0.0068 J]	0.071 J	0.017 J
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	0.049 J [0.055 J]	0.12 J	0.065 J
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	7.2 [9]	19	11
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	22 J [26 J]	46 J	25 J
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	843,000	965,000 [963,000]	891,000	798,000

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-16 8.8 - 10.8 09/08/01	RFI-05-16 10.8 - 12.8 09/08/01	RFI-05-17 0.9 - 2.9 09/08/01	RFI-05-17 8.9 - 10.9 09/08/01
VOC												
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.042 U	0.04 U	0.036 U	0.038 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.083 U	0.081 U	0.073 U	0.076 U
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.18 U	0.17 U	0.16 U	0.16 U
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.042 U	0.04 U	0.036 U	0.038 U
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.042 U	0.04 U	0.036 U	0.038 U
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.042 U	0.04 U	0.036 U	0.038 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.18 U	0.17 U	0.16 U	0.16 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	0.18 U	0.17 U	0.16 U	0.16 U
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	**0.18 U**	**0.17 U**	**0.16 U**	**0.16 U**
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.083 U	0.081 U	0.073 U	0.076 U
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.042 U	0.04 U	0.036 U	0.038 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.042 U	0.04 U	0.036 U	0.038 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.083 U	0.081 U	0.073 U	0.076 U
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.083 U	0.081 U	0.073 U	0.076 U
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.038 J	0.073 J	0.038 J	0.03 J
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.3 U	0.29 U	0.26 U	0.27 U
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.3 U	0.063 J	0.26 U	0.27 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.3 U	0.29 U	0.26 U	0.27 U
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.042 U	0.04 U	0.036 U	0.038 U
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.083 U	0.081 U	0.073 U	0.076 U
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.083 U	0.081 U	0.073 U	0.076 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.18 U	0.17 U	0.16 U	0.16 U
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.18 U	0.17 U	0.16 U	0.16 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.042 U	0.04 U	0.036 U	0.038 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.042 U	0.04 U	0.036 U	0.038 U
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.18 U	0.17 U	0.16 U	0.16 U
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.042 U	0.04 U	0.036 U	0.038 U
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.18 U	0.17 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.042 U	0.04 U	0.036 U	0.038 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.042 U	0.04 U	0.036 U	0.038 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.17 U	0.16 U	0.16 U
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.083 U	0.081 U	0.073 U	0.076 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.083 U	0.081 U	0.073 U	0.076 U
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.042 U	0.04 U	0.036 U	0.038 U
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.18 U	0.17 U	0.16 U	0.16 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.083 U	0.081 U	0.073 U	0.076 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.17 U	0.16 U	0.16 U
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.3 U	0.29 U	0.26 U	0.27 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.17 U	0.16 U	0.16 U
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.18 U	0.17 U	0.16 U	0.16 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.042 U	0.04 U	0.036 U	0.038 U
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.042 U	0.04 U	0.036 U	0.038 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.042 U	0.04 U	0.036 U	0.038 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.042 U	0.04 U	0.036 U	0.038 U
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.042 U	0.04 U	0.036 U	0.038 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.042 U	0.04 U	0.036 U	0.038 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.042 U	0.04 U	0.036 U	0.038 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.083 U	0.081 U	0.073 U	0.076 U
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.042 U	0.04 U	0.036 U	0.038 U
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.042 U	0.04 U	0.036 U	0.038 U
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.18 U	0.18 U

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-16 8.8 - 10.8 09/08/01	RFI-05-16 10.8 - 12.8 09/08/01	RFI-05-17 0.9 - 2.9 09/08/01	RFI-05-17 8.9 - 10.9 09/08/01
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.18 U	0.18 U
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.79 U	0.77 U	0.7 U	0.73 U
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.79 U	0.77 U	0.7 U	0.73 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.18 U	0.18 U
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.18 U	0.18 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.79 U	0.77 U	0.7 U	0.73 U
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.4 UJ	0.39 UJ	0.36 UJ	0.37 UJ
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	0.79 U	0.77 U	0.7 UJ	0.73 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.79 U	0.77 U	0.7 U	0.73 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.79 U	0.77 U	0.7 U	0.73 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.18 U	0.18 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.79 U	0.77 U	0.7 U	0.73 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.79 U	0.77 U	0.7 U	0.73 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.79 U	0.77 U	0.7 U	0.73 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.79 U	0.77 U	0.7 UJ	0.73 U
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	**0.2 U**	**0.2 U**	**0.18 U**	**0.18 U**
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.18 U	0.18 U
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.0867 J	0.18 U
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.119 J	0.18 U
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	0.2 U	0.2 U	0.154 J	0.18 U
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.0927 J	0.18 U
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.104 J	0.18 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.18 U	0.18 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	0.039 U	0.038 U	0.035 U	0.036 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.149 J	0.2 U	0.154 J	0.18 U
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.18 UJ	0.18 U
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.18 UJ	0.18 U
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	0.2 U	0.2 U	0.126 J	0.18 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.18 UJ	0.18 U
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.18 UJ	0.18 U
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.2 U	0.2 U	0.0724 J	0.18 U
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.2 U	0.2 U	0.18 U	0.18 U

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-16 8.8 - 10.8 09/08/01	RFI-05-16 10.8 - 12.8 09/08/01	RFI-05-17 0.9 - 2.9 09/08/01	RFI-05-17 8.9 - 10.9 09/08/01
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**0.2 U**	**0.2 U**	**0.18 U**	**0.18 U**
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.0728 J	0.18 U
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.079 U	0.077 U	0.07 U	0.073 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	0.79 U	0.77 U	0.7 U	0.73 U
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	0.2 U	0.2 U	0.0574 J	0.18 U
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.18 U	0.18 U
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.2 U	0.2 U	0.253 J	0.18 U
PCB												
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.041 U	0.04 U	0.037 U	0.038 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.041 U	0.04 U	0.037 U	0.038 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.041 U	0.04 U	0.037 U	0.038 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.041 U	0.04 U	0.037 U	0.038 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.041 U	0.04 U	0.037 U	0.038 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.041 U	0.04 U	0.037 U	0.038 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.041 U	0.04 U	0.037 U	0.038 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.041 U	0.04 U	0.037 U	0.038 U
Inorganic												
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	R	R	R	0.27 U
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	**4.9 (GSIP (2013))**	**7.9 (GSIP (2013),SDBL (2013))**	**4.8 (GSIP (2013))**	**5.1 (GSIP (2013))**
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	27	12	22	20
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	0.29	0.16	0.19	0.18
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	0.062	0.067	0.13	0.076
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	9.3	5.8	8.2	7
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	**4.3 (GSIP (2013))**	**3.5 (GSIP (2013))**	**4.2 (GSIP (2013))**	**3.8 (GSIP (2013))**
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	12	8.6	13	8.5
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	**0.2 U**	**0.2 U**	**0.2 U**	**0.2 U**
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	7.1	7.4	12	6
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	**190 (GSIP (2013))**	86	**170 (GSIP (2013))**	**200 (GSIP (2013))**
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	0.0201 J	**0.077 U**	0.0444 J	**0.75 U**
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	12	8.5	11	9.7
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	0.1 U	0.099 U	0.085 U	0.11 U
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	0.022 J	0.019 J	0.028 J	**0.27 U**
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	0.093 J	0.044 J	0.081 J	0.075 J
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	13	10	13	12
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	30 J	29 J	33 J	30
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	844,000	870,000	952,000	919,000

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-17 10.9 - 12.9 09/08/01	RFI-05-18 0.9 - 2.9 09/08/01	RFI-05-18 6.9 - 8.9 09/08/01	RFI-05-18 8.9 - 10.9 09/08/01
VOC												
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.036 U [0.037 U]	0.036 U	0.039 U	0.041 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.072 U [0.074 U]	0.072 U	0.077 U	0.082 U
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.15 U [0.16 U]	0.15 U	0.17 U	0.18 U
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.036 U [0.037 U]	0.036 U	0.039 U	0.041 U
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.036 U [0.037 U]	0.036 U	0.039 U	0.041 U
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.036 U [0.037 U]	0.036 U	0.039 U	0.041 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.15 U [0.16 U]	0.15 U	0.17 U	0.18 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	0.15 U [0.16 U]	0.15 U	0.17 U	0.18 U
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	**0.15 U [0.16 U]**	**0.15 U**	**0.17 U**	**0.18 U**
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.072 U [0.074 U]	0.072 U	0.077 U	0.082 U
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.036 U [0.037 U]	0.036 U	0.039 U	0.041 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.036 U [0.037 U]	0.036 U	0.039 U	0.041 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.072 U [0.074 U]	0.072 U	0.077 U	0.082 U
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.072 U [0.074 U]	0.072 U	0.077 U	0.082 U
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.027 J [0.031 J]	0.048 J	0.075 J	0.081 J
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.26 U [0.26 U]	0.26 U	0.28 U	0.29 U
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.26 U [0.26 U]	0.26 U	0.28 U	0.29 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.26 U [0.26 U]	0.26 U	0.39 U	0.42 U
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.036 U [0.037 U]	0.036 U	0.039 U	0.041 U
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.072 U [0.074 U]	0.072 U	0.077 U	0.082 U
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.072 U [0.074 U]	0.072 U	0.077 U	0.082 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.15 U [0.16 U]	0.15 U	0.17 U	0.18 U
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.15 U [0.16 U]	0.15 U	0.17 U	0.18 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.036 U [0.037 U]	0.036 U	0.039 U	0.041 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.036 U [0.037 U]	0.036 U	0.039 U	0.041 U
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.15 U [0.16 U]	0.15 U	0.17 U	0.18 U
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.036 U [0.037 U]	0.036 U	0.039 U	0.041 U
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.15 U [0.16 U]	0.15 U	0.17 U	0.18 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.036 U [0.037 U]	0.036 U	0.039 U	0.041 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.036 U [0.037 U]	0.036 U	0.039 U	0.041 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.15 U [0.16 U]	0.15 U	0.17 U	0.18 U
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.072 U [0.074 U]	0.072 U	0.077 U	0.082 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.072 U [0.074 U]	0.072 U	0.077 U	0.082 U
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.036 U [0.037 U]	0.036 U	0.039 U	0.041 U
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.15 U [0.16 U]	0.15 U	0.17 U	0.18 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.072 U [0.074 U]	0.072 U	0.04 J	0.029 J
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.15 U [0.16 U]	0.15 U	0.088 J	0.18 U
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.26 U [0.26 U]	0.26 U	0.28 U	0.29 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.15 U [0.16 U]	0.15 U	0.041 J	0.033 J
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.15 U [0.16 U]	0.15 U	0.17 U	0.18 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.036 U [0.037 U]	0.036 U	0.039 U	0.041 U
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.036 U [0.037 U]	0.036 U	0.039 U	0.041 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.036 U [0.037 U]	0.036 U	0.039 U	0.041 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.036 U [0.037 U]	0.036 U	0.04	0.039 J
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.036 U [0.037 U]	0.036 U	0.039 U	0.041 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.036 U [0.037 U]	0.036 U	0.039 U	0.041 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.036 U [0.037 U]	0.036 U	0.039 U	0.041 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.072 U [0.074 U]	0.072 U	0.077 U	0.082 U
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.036 U [0.037 U]	0.036 U	0.039 U	0.041 U
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.036 U [0.037 U]	0.036 U	0.039 U	0.041 U
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U [0.18 U]	0.18 U	0.412	0.19 U

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-17 10.9 - 12.9 09/08/01	RFI-05-18 0.9 - 2.9 09/08/01	RFI-05-18 6.9 - 8.9 09/08/01	RFI-05-18 8.9 - 10.9 09/08/01
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U [0.18 U]	0.18 U	0.19 U	0.19 U
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.19 U	0.19 U
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.19 U	0.19 U
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.19 U	0.19 U
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.19 U	0.19 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U [0.7 U]	0.69 U	0.76 U	0.76 U
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.7 U [0.7 U]	0.69 U	0.76 U	0.76 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U [0.18 U]	0.18 U	0.19 U	0.19 U
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.18 U [0.18 U]	0.18 U	0.19 U	0.19 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	0.18 U [0.18 U]	0.18 U	0.19 U	0.19 U
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.18 U [0.18 U]	0.18 U	0.419	0.212
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U [0.18 U]	0.18 U	0.19 U	0.19 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U [0.7 U]	0.69 U	0.76 U	0.76 U
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.19 U	0.19 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.36 UJ [0.36 UJ]	0.35 UJ	0.38 U	0.39 UJ
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	0.7 U [0.7 U]	0.69 U	0.76 UJ	0.76 UJ
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U [0.7 U]	0.69 U	0.76 U	0.76 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.7 U [0.7 U]	0.69 U	0.76 UJ	0.76 UJ
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U [0.18 U]	0.18 U	0.19 UJ	0.19 UJ
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.19 U	0.19 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U [0.7 U]	0.69 U	0.76 U	0.76 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U [0.7 U]	0.69 U	0.76 U	0.76 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U [0.7 U]	0.69 U	0.76 U	0.76 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U [0.7 U]	0.69 U	0.76 U	0.76 UJ
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	0.18 U [0.18 U]	0.0517 J	0.19 U	0.19 U
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.18 U [0.18 U]	0.18 U	0.19 U	0.19 U
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.18 U [0.18 U]	0.18 U	0.19 U	0.19 U
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.18 U [0.18 U]	0.18 U	0.19 UJ	0.19 UJ
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	**0.18 U [0.18 U]**	**0.18 U**	**0.19 UJ**	**0.19 UJ**
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U [0.18 U]	0.18 U	0.19 U	0.19 U
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.0383 J	1.27 J	0.0891 J
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.0403 J	0.945 J	0.19 UJ
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	0.18 U [0.18 U]	0.0476 J	1.11 J	0.19 UJ
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.534 J	0.19 UJ
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.0479 J	1.04 J	0.19 UJ
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U [0.18 U]	0.18 U	0.19 U	0.19 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	0.034 U [0.035 U]	0.034 U	0.037 U	0.038 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.706	0.544 J	0.314 J
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.19 UJ	0.19 UJ
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.19 U	0.19 U
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.19 UJ	0.19 UJ
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	0.18 U [0.18 U]	0.0431 J	1.36 J	0.143 J
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.19 UJ	0.19 UJ
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	0.18 U [0.18 U]	0.0938 J	0.19 U	0.19 U
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.19 U	0.19 U
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.19 U	0.19 U
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.19 UJ	0.19 UJ
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.19 UJ	0.19 UJ
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.18 U [0.18 U]	0.0658 J	1.81 J	0.19 UJ
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.18 U [0.18 U]	0.0665 J	0.19 U	0.19 U

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-17 10.9 - 12.9 09/08/01	RFI-05-18 0.9 - 2.9 09/08/01	RFI-05-18 6.9 - 8.9 09/08/01	RFI-05-18 8.9 - 10.9 09/08/01
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	0.18 U [0.18 U]	0.18 U	0.19 UJ	0.19 UJ
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**0.18 U [0.18 U]**	**0.18 U**	**0.19 U**	**0.19 U**
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	0.18 U [0.18 U]	0.18 U	0.19 U	0.19 U
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.18 U [0.18 U]	0.18 U	0.19 U	0.19 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.482 J	0.19 UJ
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.19 U	0.19 U
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.19 U	0.19 U
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.18 U [0.18 U]	0.18 U	0.133 J	0.19 U
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.07 U [0.07 U]	0.069 U	0.076 U	0.076 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.19 U	0.19 U
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.19 UJ	0.19 UJ
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	0.7 U [0.7 U]	0.69 U	0.76 UJ	0.76 UJ
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	0.18 U [0.18 U]	0.0496 J	**3.18 J (GSIP (2013))**	0.19 UJ
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.19 U	0.19 U
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.18 U [0.18 U]	0.0807 J	4.45 J	0.602 J
PCB												
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U [0.037 U]	0.036 U	0.039 U	0.04 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U [0.037 U]	0.036 U	0.039 U	0.04 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U [0.037 U]	0.036 U	0.039 U	0.04 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U [0.037 U]	0.036 U	0.039 U	0.04 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U [0.037 U]	0.036 U	0.22 J	0.04 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U [0.037 U]	0.036 U	0.14	0.04 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U [0.037 U]	0.036 U	0.039 U	0.04 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.037 U [0.037 U]	0.036 U	0.36 J	0.04 U
Inorganic												
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	R [R]	R	R	R
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	**4.8 (GSIP (2013)) [3.8]**	3.8	**9.5 (GSIP (2013),SDBL (2013))**	**5.8 (GSIP (2013))**
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	14 [9.6]	11	**330 (SDBL (2013))**	42
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	0.11 [0.1]	0.11	1.6	0.21
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	0.073 [0.056]	0.11	0.51	0.16
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	4.4 [4.1]	4.7	**19 (SDBL (2013))**	7.8
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	**2.6 (GSIP (2013)) [2.1 (GSIP (2013))]**	**2.7 (GSIP (2013))**	**7.2 (GSIP (2013),SDBL (2013))**	**2.7 (GSIP (2013))**
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	7 [5.7]	7.7	**77 (SDBL (2013))**	15
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	**0.2 U [0.2 U]**	**0.2 U**	0.041 J	0.075 J
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	6.6 [4.8]	6.3	**3,500 (NDC (2013),SDBL (2013))**	**51 (SDBL (2013))**
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	**120 (GSIP (2013)) [140 (GSIP (2013))]**	**140 (GSIP (2013))**	**250 (GSIP (2013))**	**120 (GSIP (2013))**
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	**0.073 U [0.072 U]**	**0.071 U**	**0.0807 (GSIP (2013))**	**0.0759 J (GSIP (2013))**
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	6.4 [5.4]	8.4	20	8.2
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	0.083 U [0.085 U]	0.088 U	0.23 U	0.093 U
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	**0.0065 J [0.2 U]**	0.0091 J	**0.22 J (GSIP (2013))**	0.092 J
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	0.057 J [0.048 J]	0.071 J	0.19 J	0.094 J
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	7.2 [7.3]	7.9	23	13
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	27 J [22 J]	30 J	**190 J (SDBL (2013))**	**85 J (SDBL (2013))**
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	957,000 [954,000]	966,000	887,000	878,000

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-21 0 - 2 06/26/01	RFI-05-21 6 - 8 06/26/01	RFI-05-22 0.5 - 2.5 11/26/01	RFI-05-22 4 - 6 11/26/01
VOC												
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.039 U	0.043 U	NA	0.041 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.078 U	0.086 U	NA	0.081 U
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.17 U	0.18 U	NA	0.17 U
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.039 U	0.043 U	NA	0.041 U
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.039 U	0.043 U	NA	0.041 U
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.039 U	0.043 U	NA	0.041 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.17 U	0.18 U	NA	0.17 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	0.17 U	0.18 U	NA	0.17 U
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	**0.17 U**	**0.18 U**	NA	**0.17 U**
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.078 U	0.086 U	NA	0.081 U
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.039 U	0.043 U	NA	0.041 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.039 U	0.043 U	NA	0.041 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.078 U	0.086 U	NA	0.081 U
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.078 U	0.086 U	NA	0.081 U
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.28 U	0.049 J	NA	0.29 U
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.28 U	0.31 U	NA	0.29 U
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.28 U	0.31 U	NA	0.29 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.28 U	0.31 U	NA	0.29 U
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.039 U	0.043 U	NA	0.041 U
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.078 U	0.086 U	NA	0.081 U
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.078 U	0.086 U	NA	0.081 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.17 U	0.18 U	NA	0.17 U
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.17 U	0.18 U	NA	0.17 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.039 U	0.043 U	NA	0.041 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.039 U	0.043 U	NA	0.041 U
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.17 U	0.18 U	NA	0.17 U
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.039 U	0.043 U	NA	0.041 U
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.17 U	0.18 U	NA	0.17 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.039 U	0.043 U	NA	0.041 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.039 U	0.043 U	NA	0.041 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.033 J	0.18 U	NA	0.17 U
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.078 U	0.086 U	NA	0.081 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.078 U	0.086 U	NA	0.081 U
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.039 U	0.043 U	NA	0.041 U
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.17 U	0.18 U	NA	0.17 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.039 J	0.086 U	NA	0.081 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.1 J	NA	0.17 U
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.28 U	0.31 U	NA	0.29 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.08 J	0.04 J	NA	0.17 U
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.17 UJ	0.18 UJ	NA	0.17 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.034 J	0.043 U	NA	0.041 U
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.039 U	0.043 U	NA	0.041 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.039 U	0.043 U	NA	0.041 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.043	0.043 U	NA	0.041 U
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.039 U	0.043 U	NA	0.041 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.039 U	0.043 U	NA	0.041 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.039 U	0.043 U	NA	0.041 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.078 U	0.086 U	NA	0.081 U
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.039 U	0.043 U	NA	0.041 U
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.034 J	0.043 U	NA	0.041 U
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.94 U	0.21 U	NA	0.19 U

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-21 0 - 2 06/26/01	RFI-05-21 6 - 8 06/26/01	RFI-05-22 0.5 - 2.5 11/26/01	RFI-05-22 4 - 6 11/26/01
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.94 U	0.21 U	NA	0.19 U
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.94 UJ	0.21 UJ	NA	0.19 U
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	**0.94 UJ**	0.21 UJ	NA	0.19 U
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	**0.94 UJ**	0.21 UJ	NA	0.19 U
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.94 U	0.21 U	NA	0.19 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	3.7 U	0.84 U	NA	0.77 U
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	3.7 U	0.84 U	NA	0.77 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.94 U	0.21 U	NA	0.19 U
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.94 UJ	0.21 UJ	NA	0.19 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	**0.94 U**	0.21 U	NA	0.19 U
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.94 U	0.21 U	NA	0.172 J
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.94 U	0.21 U	NA	0.19 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	3.7 U	0.84 U	NA	0.77 U
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.94 U	0.21 U	NA	0.19 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	1.9 UJ	0.43 UJ	NA	0.39 U
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	**3.7 UJ**	0.84 UJ	NA	0.77 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	3.7 U	0.84 U	NA	0.77 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	3.7 U	0.84 U	NA	0.77 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.94 U	0.21 U	NA	0.19 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	**0.94 U**	0.21 U	NA	0.19 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	3.7 U	0.84 U	NA	0.77 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	3.7 UJ	0.84 UJ	NA	0.77 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	3.7 U	0.84 U	NA	0.77 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	3.7 U	0.84 U	NA	0.77 U
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	0.94 UJ	0.21 UJ	NA	0.321
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.94 UJ	0.0935 J	NA	0.0439 J
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.94 UJ	0.21 U	NA	0.19 U
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.94 U	0.17 J	NA	0.913
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	**0.94 U**	**0.21 U**	NA	**0.19 U**
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.94 UJ	0.21 U	NA	0.19 U
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	1.29 J	1.31	NA	2.47 J
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	1.69 J	1.27 J	NA	2.06 J
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	1.78 J	1.32 J	NA	2.57 J
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	0.864 J	0.734 J	NA	1.03 J
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	1.36 J	1.22 J	NA	2.97 J
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.94 U	0.21 U	NA	0.19 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	**0.18 U**	0.041 U	NA	0.038 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.94 UJ	0.21 U	NA	0.19 U
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.94 UJ	0.21 U	NA	0.19 U
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.94 U	0.21 U	NA	0.19 U
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	0.94 U	0.179 J	NA	**1.38 (GSIP (2013))**
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	1.69 J	1.49	NA	2.69 J
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	0.94 UJ	0.21 UJ	NA	0.19 U
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	0.94 U	0.21 U	NA	0.196
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.94 U	0.21 U	NA	0.0732 J
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.94 U	0.21 U	NA	0.19 U
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.94 U	0.21 U	NA	0.0511 J
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.94 UJ	0.21 UJ	NA	0.19 U
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	1.2 J	2.95	NA	0.19 U
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.94 UJ	0.053 J	NA	0.458

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-21 0 - 2 06/26/01	RFI-05-21 6 - 8 06/26/01	RFI-05-22 0.5 - 2.5 11/26/01	RFI-05-22 4 - 6 11/26/01
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	**0.94 U**	0.21 U	NA	0.19 U
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**0.94 U**	**0.21 U**	NA	**0.19 U**
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	0.94 U	0.21 U	NA	0.19 U
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.94 U	0.21 U	NA	0.19 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.877 J	0.655 J	NA	0.919 J
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.94 UJ	0.21 UJ	NA	0.19 U
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.94 U	0.21 U	NA	0.19 U
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	**0.94 U**	0.21 U	NA	0.168 J
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.37 UJ	0.084 UJ	NA	0.077 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	0.94 U	0.21 U	NA	0.19 U
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.94 U	0.21 U	NA	0.19 U
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	3.7 U	0.84 U	NA	0.77 U
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	0.323 J	1.01	NA	**3.42 (GSIP (2013))**
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.94 U	0.21 U	NA	0.19 U
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	2.77 JD	3.96	NA	4.99 JD
PCB												
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.044 U	NA	0.04 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.044 U	NA	0.04 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.044 U	NA	0.04 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.044 U	NA	0.04 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.044 U	NA	0.04 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.044 U	NA	0.04 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.25	0.044 U	NA	0.04 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.25	0.044 U	NA	0.04 U
Inorganic												
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	0.27 J	0.061 J	NA	R
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	4.2	4.6	NA	4.6
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	35	**130 (SDBL (2013))**	NA	**170 (SDBL (2013))**
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	0.41	1	NA	0.68 J
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	0.43	0.53	NA	0.77 J
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	15	13	NA	**43 J (SDBL (2013))**
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	**3.5 J (GSIP (2013))**	**5.7 J (GSIP (2013))**	NA	**4 (GSIP (2013))**
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	**21,000 J (GSIP (2013),SDBL (2013))**	30 J	NA	**200 (GSIP (2013),SDBL (2013))**
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	0.069 J	0.035 J	NA	**0.2 UJ**
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**3,100 (NDC (2013),SDBL (2013))**	**78 (SDBL (2013))**	14	**310 (SDBL (2013))**
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	**220 (GSIP (2013))**	**120 (GSIP (2013))**	NA	**930 (GSIP (2013),SDBL (2013))**
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	**0.0871 (GSIP (2013))**	**0.202 (GSIP (2013),SDBL (2013))**	NA	**1.4 (GSIP (2013),SDBL (2013))**
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	**44 J (SDBL (2013))**	17 J	NA	**45 J (SDBL (2013))**
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	0.088 U	**0.53 (GSIP (2013),SDBL (2013))**	NA	0.39 J
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	**9.8 (GSIP (2013),SDBL (2013))**	**0.15 J (GSIP (2013))**	NA	**0.2 J (GSIP (2013))**
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	0.064 J	0.14 J	NA	0.14 J
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	12	18	NA	12 J
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	**110 (SDBL (2013))**	**180 (SDBL (2013))**	NA	**180 (SDBL (2013))**
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	902,000	798,000	901,000	873,000

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-23 1.3 - 3 11/26/01	RFI-05-23 4 - 6 11/26/01	RFI-05-24 1 - 3 11/26/01	RFI-05-24 3 - 5 11/26/01	RFI-05-25 0 - 2 11/30/01
VOC													
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	0.036 U	NA	NA	0.039 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	0.072 U	NA	NA	0.079 U
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	0.15 U	NA	NA	0.17 U
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	0.036 U	NA	NA	0.039 U
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	0.036 U	NA	NA	0.039 U
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	0.036 U	NA	NA	0.039 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	0.15 U	NA	NA	0.17 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	0.15 U	NA	NA	0.17 U
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	**0.15 U**	NA	NA	**0.17 U**
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	0.072 U	NA	NA	0.079 U
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	0.036 U	NA	NA	0.039 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	0.036 U	NA	NA	0.039 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	0.072 U	NA	NA	0.079 U
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	0.072 U	NA	NA	0.079 U
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	0.046 J	NA	NA	0.28 U
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	0.26 U	NA	NA	0.28 U
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	0.26 U	NA	NA	0.28 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	0.24 J	NA	NA	0.28 UJ
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	0.036 U	NA	NA	0.039 U
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	0.072 U	NA	NA	0.079 U
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	0.072 U	NA	NA	0.079 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	0.15 U	NA	NA	0.17 U
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	0.15 U	NA	NA	0.17 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	0.036 U	NA	NA	0.039 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	0.036 U	NA	NA	0.039 U
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	0.15 U	NA	NA	0.17 U
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	0.036 U	NA	NA	0.039 U
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	0.15 U	NA	NA	0.17 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	0.036 U	NA	NA	0.039 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.036 U	NA	NA	0.039 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.032 J	NA	NA	0.17 U
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	0.072 U	NA	NA	0.079 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	0.072 U	NA	NA	0.079 U
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	0.036 U	NA	NA	0.039 U
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	0.15 U	NA	NA	0.17 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.072 U	NA	NA	0.079 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.15 U	NA	NA	0.035 J
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	0.26 U	NA	NA	0.28 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.032 J	NA	NA	0.17 U
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	0.15 U	NA	NA	0.032 J
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.036 U	NA	NA	0.039 U
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	0.036 U	NA	NA	0.039 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	0.036 U	NA	NA	0.039 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	0.036 U	NA	NA	0.039 U
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	0.036 U	NA	NA	0.039 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.036 U	NA	NA	0.039 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	0.036 U	NA	NA	0.039 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	0.072 U	NA	NA	0.079 U
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	0.036 U	NA	NA	0.039 U
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	0.036 U	NA	NA	0.039 U
SVOC													
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.18 U	NA	NA	0.18 J

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-23 1.3 - 3 11/26/01	RFI-05-23 4 - 6 11/26/01	RFI-05-24 1 - 3 11/26/01	RFI-05-24 3 - 5 11/26/01	RFI-05-25 0 - 2 11/30/01
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.18 U	NA	NA	0.19 U
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	0.18 U	NA	NA	0.19 U
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	0.18 U	NA	NA	0.19 U
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	0.18 U	NA	NA	0.19 U
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	0.18 U	NA	NA	0.19 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.7 U	NA	NA	0.75 U
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	0.7 U	NA	NA	0.75 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.18 U	NA	NA	0.19 U
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	0.0986 J	NA	NA	0.19 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	0.18 U	NA	NA	0.19 U
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	0.229	NA	NA	0.546
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.18 U	NA	NA	0.19 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.7 U	NA	NA	0.75 U
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	0.18 U	NA	NA	0.19 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.36 UJ	NA	NA	1.9 UJ
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	0.7 U	NA	NA	**3.7 UJ**
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.7 U	NA	NA	0.75 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	0.7 U	NA	NA	0.75 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.18 U	NA	NA	0.19 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	0.18 U	NA	NA	0.19 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.7 U	NA	NA	0.75 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.7 U	NA	NA	0.75 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.7 U	NA	NA	0.75 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.7 U	NA	NA	0.75 U
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	0.169 J	NA	NA	0.19 U
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	0.18 U	NA	NA	0.19 U
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	0.0435 J	NA	NA	0.19 U
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	0.329	NA	NA	0.0447 J
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	**0.18 U**	NA	NA	**0.19 U**
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.18 U	NA	NA	0.19 U
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	0.58	NA	NA	0.95 UJ
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	0.398	NA	NA	0.95 UJ
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	0.354	NA	NA	0.95 UJ
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	0.721	NA	NA	0.95 UJ
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	0.27	NA	NA	0.95 UJ
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.18 U	NA	NA	0.19 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	0.035 U	NA	NA	0.037 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	0.18 U	NA	NA	0.95 UJ
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	0.0481 J	NA	NA	0.95 UJ
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	0.18 U	NA	NA	0.19 U
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	0.126 J	NA	NA	0.19 U
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	0.554	NA	NA	0.95 UJ
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	0.18 UJ	NA	NA	0.95 UJ
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	0.123 J	NA	NA	0.19 U
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	0.0913 J	NA	NA	0.19 U
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	0.18 U	NA	NA	0.19 U
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	0.18 U	NA	NA	0.19 U
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	0.18 U	NA	NA	0.95 UJ
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	1.03	NA	NA	0.279
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	0.194	NA	NA	0.234

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-23 1.3 - 3 11/26/01	RFI-05-23 4 - 6 11/26/01	RFI-05-24 1 - 3 11/26/01	RFI-05-24 3 - 5 11/26/01	RFI-05-25 0 - 2 11/30/01
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	0.18 U	NA	NA	0.19 U
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	**0.18 U**	NA	NA	**0.19 U**
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	0.18 U	NA	NA	0.19 U
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	0.18 U	NA	NA	0.19 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	0.571	NA	NA	0.95 UJ
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	0.18 U	NA	NA	0.19 U
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	0.18 U	NA	NA	0.19 U
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	0.313	NA	NA	0.185 J
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	0.07 U	NA	NA	0.075 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	0.18 U	NA	NA	0.19 U
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	0.18 U	NA	NA	0.19 U
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	0.7 U	NA	NA	0.75 U
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	1.15	NA	NA	0.521
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	0.18 U	NA	NA	0.19 U
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	1.62	NA	NA	0.572
PCB													
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	0.037 U	NA	NA	0.039 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	0.037 U	NA	NA	0.039 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	0.037 U	NA	NA	0.039 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	0.037 U	NA	NA	0.46
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	0.037 U	NA	NA	0.039 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	0.037 U	NA	NA	0.22
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	0.037 U	NA	NA	0.039 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	NA	0.037 U	NA	NA	0.68
Inorganic													
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	R	NA	NA	R
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	**12 (GSIP (2013),SDBL (2013))**	NA	NA	4.2
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	**99 (SDBL (2013))**	NA	NA	34
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	0.58 J	NA	NA	0.26 J
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	0.091 J	NA	NA	0.21
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	**76 J (SDBL (2013))**	NA	NA	13 J
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	**6.5 (GSIP (2013))**	NA	NA	**5.2 (GSIP (2013))**
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	**100 (SDBL (2013))**	NA	NA	17
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	**0.27 (GSIP (2013))**	NA	NA	**0.2 U**
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**92 (SDBL (2013))**	21	**42 (SDBL (2013))**	**34 (SDBL (2013))**	**50 (SDBL (2013))**
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	**2,400 (GSIP (2013),NPSIC (2013),SDBL (2013))**	NA	NA	**300 (GSIP (2013))**
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	0.0344 J	NA	NA	0.0189 J
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	**89 J (SDBL (2013))**	NA	NA	17 J
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	0.091	NA	NA	0.081 UJ
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	**0.2 (GSIP (2013))**	NA	NA	0.051 J
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	0.043 J	NA	NA	0.1 J
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	31 J	NA	NA	14
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	10	NA	NA	44 J
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	926,000	956,000	905,000	899,000	894,000

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-26 7 - 9 04/12/02	RFI-05-27 7 - 9 12/10/01	RFI-05-29 7 - 9 12/10/01	RFI-05-31 7 - 9 03/11/03	SB-05-05 1 - 3 09/03/13	SB-05-05 4 - 6 09/03/13	SB-05-05 6 - 8 09/03/13	SB-05-05 8 - 10 09/03/13
VOC																
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-26 7 - 9 04/12/02	RFI-05-27 7 - 9 12/10/01	RFI-05-29 7 - 9 12/10/01	RFI-05-31 7 - 9 03/11/03	SB-05-05 1 - 3 09/03/13	SB-05-05 4 - 6 09/03/13	SB-05-05 6 - 8 09/03/13	SB-05-05 8 - 10 09/03/13
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-05-26 7 - 9 04/12/02	RFI-05-27 7 - 9 12/10/01	RFI-05-29 7 - 9 12/10/01	RFI-05-31 7 - 9 03/11/03	SB-05-05 1 - 3 09/03/13	SB-05-05 4 - 6 09/03/13	SB-05-05 6 - 8 09/03/13	SB-05-05 8 - 10 09/03/13
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
PCB																
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	NA	NA	NA	NA	0.33 U	0.33 U	0.33 U	0.33 U
Inorganic																
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**540 JD (SDBL (2013))**	5.5 J	**46 J (SDBL (2013))**	**83 J (SDBL (2013))**	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	848,000	949,000	894,000	908,000	930,000	890,000	900,000	860,000

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-05-05 10 - 12 09/03/13	SB-05-05 12 - 14 09/03/13	SB-05-05 14 - 16 09/03/13	SB-05-06 1 - 3 09/03/13	SB-05-06 3 - 5 09/03/13	SB-05-06 5 - 7 09/03/13	SB-05-07 1 - 3 09/06/13	SB-05-07 3 - 5 09/06/13	SB-05-07 5 - 7 09/06/13	SB-05-07 7 - 9 09/06/13	SB-05-07 9 - 11 09/06/13
VOC																			
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																			
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-05-05 10 - 12 09/03/13	SB-05-05 12 - 14 09/03/13	SB-05-05 14 - 16 09/03/13	SB-05-06 1 - 3 09/03/13	SB-05-06 3 - 5 09/03/13	SB-05-06 5 - 7 09/03/13	SB-05-07 1 - 3 09/06/13	SB-05-07 3 - 5 09/06/13	SB-05-07 5 - 7 09/06/13	SB-05-07 7 - 9 09/06/13	SB-05-07 9 - 11 09/06/13
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-05-05 10 - 12 09/03/13	SB-05-05 12 - 14 09/03/13	SB-05-05 14 - 16 09/03/13	SB-05-06 1 - 3 09/03/13	SB-05-06 3 - 5 09/03/13	SB-05-06 5 - 7 09/03/13	SB-05-07 1 - 3 09/06/13	SB-05-07 3 - 5 09/06/13	SB-05-07 5 - 7 09/06/13	SB-05-07 7 - 9 09/06/13	SB-05-07 9 - 11 09/06/13
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB																			
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1 UY	0.6 UY	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1 UY	0.6 UY	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1 UY	0.6 UY	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1	8 Y	5 Y	0.7	1
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1 UY	0.6 UY	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1 UY	0.6 UY	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1 UY	0.6 UY	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1	8	5	0.7	1
Inorganic																			
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																			
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	830,000	810,000	810,000	880,000	770,000	820,000	960,000	930,000	880,000	830,000	860,000

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-05-07 11 - 13 09/06/13	SB-05-07 13 - 15 09/06/13	SB-05-08 1 - 3 09/06/13	SB-05-08 5 - 7 09/06/13	SB-05-08 7 - 9 09/06/13	SB-05-08 9 - 11 09/06/13	SB-05-08 11 - 13 09/06/13	SB-05-08 13 - 15 09/06/13	SB-05-09 1 - 3 09/03/13	SB-05-14 1 - 3 09/03/13	SB-05-14 3 - 5 09/03/13
VOC																			
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																			
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-05-07 11 - 13 09/06/13	SB-05-07 13 - 15 09/06/13	SB-05-08 1 - 3 09/06/13	SB-05-08 5 - 7 09/06/13	SB-05-08 7 - 9 09/06/13	SB-05-08 9 - 11 09/06/13	SB-05-08 11 - 13 09/06/13	SB-05-08 13 - 15 09/06/13	SB-05-09 1 - 3 09/03/13	SB-05-14 1 - 3 09/03/13	SB-05-14 3 - 5 09/03/13
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-05-07 11 - 13 09/06/13	SB-05-07 13 - 15 09/06/13	SB-05-08 1 - 3 09/06/13	SB-05-08 5 - 7 09/06/13	SB-05-08 7 - 9 09/06/13	SB-05-08 9 - 11 09/06/13	SB-05-08 11 - 13 09/06/13	SB-05-08 13 - 15 09/06/13	SB-05-09 1 - 3 09/03/13	SB-05-14 1 - 3 09/03/13	SB-05-14 3 - 5 09/03/13
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB																			
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1 UY	0.6 UY	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1 UY	0.6 UY	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1 UY	0.6 UY	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	1	2	9 Y	6 Y	1	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1 UY	0.6 UY	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1 UY	0.6 UY	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1 UY	0.6 UY	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.33 U	0.33 U	0.33 U	1	2	9	6	1	0.33 U	0.33 U
Inorganic																			
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																			
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	790,000	780,000	930,000	880,000	890,000	840,000	860,000	770,000	920,000	840,000	830,000

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-DH-RW-3-8 5 - 7 01/16/14	SB-DH-RW-3-8 9 - 11 01/16/14	SB-DH-RW-3-8 11 - 13 01/16/14	SB-DH-RW-3-9 5 - 7 01/16/14	SB-DH-RW-3-9 9 - 11 01/16/14	SB-DH-RW-3-9 13 - 15 01/16/14	SB-DH-RW-3-10 5 - 7 01/16/14
VOC															
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC															
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-DH-RW-3-8 5 - 7 01/16/14	SB-DH-RW-3-8 9 - 11 01/16/14	SB-DH-RW-3-8 11 - 13 01/16/14	SB-DH-RW-3-9 5 - 7 01/16/14	SB-DH-RW-3-9 9 - 11 01/16/14	SB-DH-RW-3-9 13 - 15 01/16/14	SB-DH-RW-3-10 5 - 7 01/16/14
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-DH-RW-3-8 5 - 7 01/16/14	SB-DH-RW-3-8 9 - 11 01/16/14	SB-DH-RW-3-8 11 - 13 01/16/14	SB-DH-RW-3-9 5 - 7 01/16/14	SB-DH-RW-3-9 9 - 11 01/16/14	SB-DH-RW-3-9 13 - 15 01/16/14	SB-DH-RW-3-10 5 - 7 01/16/14
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB															
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	1 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	1 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	1 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	7 Y	4.2 Y	0.6	2.3	0.33 U	1
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	1 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	1 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	1 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	7	4.2	0.6	2.3	0.33 U	1
Inorganic															
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	870,000	910,000	810,000	880,000	870,000	780,000	830,000

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-DH-RW-3-10 9 - 10 01/16/14	SB-DH-RW-3-10 13 - 15 01/16/14	SB-DH-RW-3-11 5 - 7 01/16/14	SB-DH-RW-3-11 9 - 11 01/16/14	SB-DH-RW-3-11 13 - 15 01/16/14	SB-DH-RW-3-12 5 - 7 01/17/14	SB-DH-RW-3-12 9 - 11 01/17/14
VOC															
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC															
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-DH-RW-3-10 9 - 10 01/16/14	SB-DH-RW-3-10 13 - 15 01/16/14	SB-DH-RW-3-11 5 - 7 01/16/14	SB-DH-RW-3-11 9 - 11 01/16/14	SB-DH-RW-3-11 13 - 15 01/16/14	SB-DH-RW-3-12 5 - 7 01/17/14	SB-DH-RW-3-12 9 - 11 01/17/14
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-DH-RW-3-10 9 - 10 01/16/14	SB-DH-RW-3-10 13 - 15 01/16/14	SB-DH-RW-3-11 5 - 7 01/16/14	SB-DH-RW-3-11 9 - 11 01/16/14	SB-DH-RW-3-11 13 - 15 01/16/14	SB-DH-RW-3-12 5 - 7 01/17/14	SB-DH-RW-3-12 9 - 11 01/17/14
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB															
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.6 UY [0.6 UY]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.6 UY [0.6 UY]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.6 UY [0.6 UY]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	3.5 Y [2.3 Y]	0.33 U	0.33 U	1.1	0.33 U	1.1	4.9 Y
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.6 UY [0.6 UY]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.6 UY [0.6 UY]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.6 UY [0.6 UY]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	3.5 [2.3]	0.33 U	0.33 U	1.1	0.33 U	1.1	4.9
Inorganic															
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	840,000 [840,000]	780,000	860,000	840,000	770,000	900,000	820,000

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-DH-RW-3-12 11 - 13 01/17/14	SB-DH-RW-3-13 5 - 7 01/17/14	SB-DH-RW-3-13 9 - 11 01/17/14	SB-DH-RW-3-13 13 - 15 01/17/14	SB-DH-RW-3-14 5 - 7 01/17/14	SB-DH-RW-3-14 9 - 11 01/17/14	SB-DH-RW-3-14 13 - 15 01/17/14
VOC															
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC															
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-DH-RW-3-12 11 - 13 01/17/14	SB-DH-RW-3-13 5 - 7 01/17/14	SB-DH-RW-3-13 9 - 11 01/17/14	SB-DH-RW-3-13 13 - 15 01/17/14	SB-DH-RW-3-14 5 - 7 01/17/14	SB-DH-RW-3-14 9 - 11 01/17/14	SB-DH-RW-3-14 13 - 15 01/17/14
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-DH-RW-3-12 11 - 13 01/17/14	SB-DH-RW-3-13 5 - 7 01/17/14	SB-DH-RW-3-13 9 - 11 01/17/14	SB-DH-RW-3-13 13 - 15 01/17/14	SB-DH-RW-3-14 5 - 7 01/17/14	SB-DH-RW-3-14 9 - 11 01/17/14	SB-DH-RW-3-14 13 - 15 01/17/14
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB															
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	3 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	3 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	3 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.9	**28 Y (NDC (2013))**	0.33 U	0.33 U	0.8	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	3 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	3 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	3 UY	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.9	**28 (NDC (2013))**	0.33 U	0.33 U	0.8	0.33 U
Inorganic															
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	770,000	800,000	900,000	800,000	910,000	860,000	820,000

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-DH-RW-03-15 7 - 9 02/06/14	SB-DH-RW-03-15 9 - 11 02/06/14	SB-DH-RW-03-15 11 - 14 02/06/14	SB-DH-RW-03-16 7 - 9 02/06/14	SB-DH-RW-03-16 9 - 11 02/06/14	SB-DH-RW-03-16 11 - 14 02/06/14
VOC														
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA
SVOC														
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
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RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-DH-RW-03-15 7 - 9 02/06/14	SB-DH-RW-03-15 9 - 11 02/06/14	SB-DH-RW-03-15 11 - 14 02/06/14	SB-DH-RW-03-16 7 - 9 02/06/14	SB-DH-RW-03-16 9 - 11 02/06/14	SB-DH-RW-03-16 11 - 14 02/06/14
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-DH-RW-03-15 7 - 9 02/06/14	SB-DH-RW-03-15 9 - 11 02/06/14	SB-DH-RW-03-15 11 - 14 02/06/14	SB-DH-RW-03-16 7 - 9 02/06/14	SB-DH-RW-03-16 9 - 11 02/06/14	SB-DH-RW-03-16 11 - 14 02/06/14
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA
PCB														
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	1 UY	6 UY	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	1 UY	6 UY	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	1 UY	6 UY	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	9 Y	**40 Y (NDC (2013))**	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	1 UY	6 UY	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	1 UY	6 UY	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	1 UY	6 UY	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.33 U	0.33 U	9	**40 (NDC (2013))**	0.33 U
Inorganic														
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	1.14	1.51	2.14	3.07	2.57	2.64
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	13.7	13.1	4.53	54.5	14	4.67
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	0.21	0.2 U	0.2 U	0.28	0.2 U	0.2 U
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	0.2 U	0.2 U	0.2 U	0.35	0.2 U	0.2 U
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	4.68	3.13	1.7	7.64	4.74	2.45
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	**2.85 (GSIP (2013))**	1.79	1.35	**2.65 (GSIP (2013))**	**2.27 (GSIP (2013))**	1.59
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	2.46	6.98	5.08	26.9	7.9	4.59
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	5.8	5.45	4.26	**76.5 (SDBL (2013))**	5.34	3.81
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	32.9	**167 (GSIP (2013))**	**116 (GSIP (2013))**	**150 (GSIP (2013))**	67.1	**138 (GSIP (2013))**
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	0.05 U	0.05 U	0.05 U	**0.121 (GSIP (2013))**	0.05 U	0.05 U
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	2.37	4.55	3.47	10.5	6.53	3.83
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	**0.2 U**	**0.2 U**	**0.2 U**	**0.2 U**	**0.2 U**	**0.2 U**
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	8.86	4.54	3.79	8.9	6.99	3.75
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	6.37	21	18.6	**91 (SDBL (2013))**	32.9	18.1
Miscellaneous														
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	870,000	830,000	760,000	860,000	870,000	810,000

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-05-05-1 9 - 11 01/16/14	TW-05-05-1 11 - 13 01/16/14	TW-05-05-1 13 - 15 01/16/14	TW-05-05-1 15 - 17 01/16/14	TW-05-05-1 18 - 20 01/16/14	TW-05-05-2 9 - 11 01/16/14	TW-05-05-2 11 - 13 01/16/14	TW-05-05-2 13 - 15 01/16/14	TW-05-05-2 15 - 17 01/16/14
VOC																	
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																	
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-05-05-1 9 - 11 01/16/14	TW-05-05-1 11 - 13 01/16/14	TW-05-05-1 13 - 15 01/16/14	TW-05-05-1 15 - 17 01/16/14	TW-05-05-1 18 - 20 01/16/14	TW-05-05-2 9 - 11 01/16/14	TW-05-05-2 11 - 13 01/16/14	TW-05-05-2 13 - 15 01/16/14	TW-05-05-2 15 - 17 01/16/14
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-05-05-1 9 - 11 01/16/14	TW-05-05-1 11 - 13 01/16/14	TW-05-05-1 13 - 15 01/16/14	TW-05-05-1 15 - 17 01/16/14	TW-05-05-1 18 - 20 01/16/14	TW-05-05-2 9 - 11 01/16/14	TW-05-05-2 11 - 13 01/16/14	TW-05-05-2 13 - 15 01/16/14	TW-05-05-2 15 - 17 01/16/14
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB																	
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	1 UX	2 UY	0.33 U	0.33 U	0.33 U	2 UY	0.6 UY	0.6 UY
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	1 UX	2 UY	0.33 U	0.33 U	0.33 U	2 UY	0.6 UY	0.6 UY
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	1 UX	2 UY	0.33 U	0.33 U	0.33 U	2 UY	0.6 UY	0.6 UY
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	1 UX	10 Y	0.33 U	0.33 U	0.33 U	12 Y	4.7 Y	3.4 Y
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	1 UX	2 UY	0.33 U	0.33 U	0.33 U	2 UY	0.6 UY	0.6 UY
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	1 UX	2 UY	0.33 U	0.33 U	0.33 U	2 UY	0.6 UY	0.6 UY
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	1 UX	2 UY	0.33 U	0.33 U	0.33 U	2 UY	0.6 UY	0.6 UY
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	1 U	10	0.33 U	0.33 U	0.33 U	12	4.7	3.4
Inorganic																	
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																	
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	920,000	910,000	910,000	820,000	920,000	950,000	900,000	850,000	870,000

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-05-05-2 18 - 20 01/16/14	TW-43-165-1 5 - 7 01/14/14	TW-43-165-1 9 - 11 01/14/14	TW-43-165-1 13 - 15 01/14/14	TW-43-165-2 5 - 7 01/14/14	TW-43-165-2 9 - 11 01/14/14	TW-43-165-2 13 - 15 01/14/14	TW-43-165-3 5 - 7 01/14/14
VOC																
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-05-05-2 18 - 20 01/16/14	TW-43-165-1 5 - 7 01/14/14	TW-43-165-1 9 - 11 01/14/14	TW-43-165-1 13 - 15 01/14/14	TW-43-165-2 5 - 7 01/14/14	TW-43-165-2 9 - 11 01/14/14	TW-43-165-2 13 - 15 01/14/14	TW-43-165-3 5 - 7 01/14/14
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-05-05-2 18 - 20 01/16/14	TW-43-165-1 5 - 7 01/14/14	TW-43-165-1 9 - 11 01/14/14	TW-43-165-1 13 - 15 01/14/14	TW-43-165-2 5 - 7 01/14/14	TW-43-165-2 9 - 11 01/14/14	TW-43-165-2 13 - 15 01/14/14	TW-43-165-3 5 - 7 01/14/14
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
PCB																
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.5
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.5	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U [0.4]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.5	0.33 U [0.4]	0.33 U	0.33 U	0.33 U	0.33 U	0.5
Inorganic																
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	920,000	850,000	830,000 [860,000]	820,000	870,000	870,000	800,000	850,000

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-43-165-3 9 - 11 01/14/14	TW-43-165-3 13 - 15 01/14/14	TW-43-165-4 5 - 7 01/14/14	TW-43-165-4 9 - 11 01/14/14	TW-43-165-4 13 - 15 01/14/14	TW-43-165-5 5 - 7 01/14/14	TW-43-165-5 9 - 11 01/14/14	TW-43-165-5 13 - 15 01/14/14
VOC																
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-43-165-3 9 - 11 01/14/14	TW-43-165-3 13 - 15 01/14/14	TW-43-165-4 5 - 7 01/14/14	TW-43-165-4 9 - 11 01/14/14	TW-43-165-4 13 - 15 01/14/14	TW-43-165-5 5 - 7 01/14/14	TW-43-165-5 9 - 11 01/14/14	TW-43-165-5 13 - 15 01/14/14
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-43-165-3 9 - 11 01/14/14	TW-43-165-3 13 - 15 01/14/14	TW-43-165-4 5 - 7 01/14/14	TW-43-165-4 9 - 11 01/14/14	TW-43-165-4 13 - 15 01/14/14	TW-43-165-5 5 - 7 01/14/14	TW-43-165-5 9 - 11 01/14/14	TW-43-165-5 13 - 15 01/14/14
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
PCB																
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5	0.33 U	0.33 U
Inorganic																
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	770,000	850,000	840,000	870,000	830,000	840,000	900,000	890,000

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-43-165-6 5 - 7 01/15/14	TW-43-165-6 9 - 11 01/15/14	TW-43-165-6 13 - 15 01/15/14	TW-43-165-7 5 - 7 01/15/14	TW-43-165-7 9 - 11 01/15/14	TW-43-165-7 13 - 15 01/15/14	TW-DH-RW-1-1 5 - 7 01/13/14
VOC															
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC															
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-43-165-6 5 - 7 01/15/14	TW-43-165-6 9 - 11 01/15/14	TW-43-165-6 13 - 15 01/15/14	TW-43-165-7 5 - 7 01/15/14	TW-43-165-7 9 - 11 01/15/14	TW-43-165-7 13 - 15 01/15/14	TW-DH-RW-1-1 5 - 7 01/13/14
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-43-165-6 5 - 7 01/15/14	TW-43-165-6 9 - 11 01/15/14	TW-43-165-6 13 - 15 01/15/14	TW-43-165-7 5 - 7 01/15/14	TW-43-165-7 9 - 11 01/15/14	TW-43-165-7 13 - 15 01/15/14	TW-DH-RW-1-1 5 - 7 01/13/14
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB															
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	1.4
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	1.6 [0.6]	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.33 U	0.33 U	1.6 [0.6]	0.33 U	0.33 U	1.4
Inorganic															
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	840,000	910,000	880,000	910,000 [870,000]	830,000	850,000	890,000

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-1-1 9 - 11 01/13/14	TW-DH-RW-1-1 13 - 15 01/13/14	TW-DH-RW-1-2 5 - 7 01/13/14	TW-DH-RW-1-2 9 - 11 01/13/14	TW-DH-RW-1-2 13 - 15 01/13/14	TW-DH-RW-1-3 5 - 7 01/13/14	TW-DH-RW-1-3 9 - 11 01/13/14
VOC															
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC															
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-1-1 9 - 11 01/13/14	TW-DH-RW-1-1 13 - 15 01/13/14	TW-DH-RW-1-2 5 - 7 01/13/14	TW-DH-RW-1-2 9 - 11 01/13/14	TW-DH-RW-1-2 13 - 15 01/13/14	TW-DH-RW-1-3 5 - 7 01/13/14	TW-DH-RW-1-3 9 - 11 01/13/14
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-1-1 9 - 11 01/13/14	TW-DH-RW-1-1 13 - 15 01/13/14	TW-DH-RW-1-2 5 - 7 01/13/14	TW-DH-RW-1-2 9 - 11 01/13/14	TW-DH-RW-1-2 13 - 15 01/13/14	TW-DH-RW-1-3 5 - 7 01/13/14	TW-DH-RW-1-3 9 - 11 01/13/14
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB															
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U [0.33 U]	0.33 U	1.2 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U [0.33 U]	0.33 U	1.2 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U [0.33 U]	0.33 U	1.2 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U [0.33 U]	0.33 U	10.8 Y	0.33 U	0.33 U	0.47	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U [0.33 U]	0.33 U	1.2 UY	0.33 U	0.33 U	0.33 U	0.78
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.9 [0.7]	0.33 U	1.2 UY	1	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U [0.33 U]	0.33 U	1.2 UY	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.9 [0.7]	0.33 U	10.8	1	0.33 U	0.47	0.78
Inorganic															
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	840,000 [870,000]	830,000	900,000	850,000	810,000	860,000	830,000

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-1-3 13 - 15 01/13/14	TW-DH-RW-1-4 5 - 7 01/13/14	TW-DH-RW-1-4 9 - 11 01/13/14	TW-DH-RW-1-4 13 - 15 01/13/14	TW-DH-RW-1-5 5 - 7 01/13/14	TW-DH-RW-1-5 9 - 11 01/13/14	TW-DH-RW-1-5 13 - 15 01/13/14
VOC															
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC															
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-1-3 13 - 15 01/13/14	TW-DH-RW-1-4 5 - 7 01/13/14	TW-DH-RW-1-4 9 - 11 01/13/14	TW-DH-RW-1-4 13 - 15 01/13/14	TW-DH-RW-1-5 5 - 7 01/13/14	TW-DH-RW-1-5 9 - 11 01/13/14	TW-DH-RW-1-5 13 - 15 01/13/14
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-1-3 13 - 15 01/13/14	TW-DH-RW-1-4 5 - 7 01/13/14	TW-DH-RW-1-4 9 - 11 01/13/14	TW-DH-RW-1-4 13 - 15 01/13/14	TW-DH-RW-1-5 5 - 7 01/13/14	TW-DH-RW-1-5 9 - 11 01/13/14	TW-DH-RW-1-5 13 - 15 01/13/14
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB															
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	5 Y	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.49	0.33 U	0.5 UY	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.33 U	0.49	0.33 U	5	0.33 U	0.33 U
Inorganic															
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	820,000	880,000	910,000	770,000	860,000	850,000	780,000

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-1-6 5 - 7 01/14/14	TW-DH-RW-1-6 9 - 11 01/14/14	TW-DH-RW-1-6 13 - 15 01/14/14	TW-DH-RW-1-7 5 - 7 01/14/14	TW-DH-RW-1-7 9 - 11 01/14/14	TW-DH-RW-1-7 13 - 15 01/14/14	TW-DH-RW-2-1 9 - 11 01/10/14
VOC															
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC															
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-1-6 5 - 7 01/14/14	TW-DH-RW-1-6 9 - 11 01/14/14	TW-DH-RW-1-6 13 - 15 01/14/14	TW-DH-RW-1-7 5 - 7 01/14/14	TW-DH-RW-1-7 9 - 11 01/14/14	TW-DH-RW-1-7 13 - 15 01/14/14	TW-DH-RW-2-1 9 - 11 01/10/14
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-1-6 5 - 7 01/14/14	TW-DH-RW-1-6 9 - 11 01/14/14	TW-DH-RW-1-6 13 - 15 01/14/14	TW-DH-RW-1-7 5 - 7 01/14/14	TW-DH-RW-1-7 9 - 11 01/14/14	TW-DH-RW-1-7 13 - 15 01/14/14	TW-DH-RW-2-1 9 - 11 01/10/14
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB															
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.5 UY	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.5 UY	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.5 UY	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	4 Y	8 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.5 UY	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.5 UY	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.5 UY	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	4	8	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Inorganic															
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	850,000	860,000	790,000	820,000	810,000	800,000	840,000

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-2-1 13 - 15 01/10/14	TW-DH-RW-2-2 5 - 7 01/10/14	TW-DH-RW-2-2 9 - 11 01/10/14	TW-DH-RW-2-2 13 - 15 01/10/14	TW-DH-RW-2-3 5 - 7 01/10/14	TW-DH-RW-2-3 9 - 11 01/10/14	TW-DH-RW-2-3 13 - 15 01/10/14
VOC															
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC															
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-2-1 13 - 15 01/10/14	TW-DH-RW-2-2 5 - 7 01/10/14	TW-DH-RW-2-2 9 - 11 01/10/14	TW-DH-RW-2-2 13 - 15 01/10/14	TW-DH-RW-2-3 5 - 7 01/10/14	TW-DH-RW-2-3 9 - 11 01/10/14	TW-DH-RW-2-3 13 - 15 01/10/14
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-2-1 13 - 15 01/10/14	TW-DH-RW-2-2 5 - 7 01/10/14	TW-DH-RW-2-2 9 - 11 01/10/14	TW-DH-RW-2-2 13 - 15 01/10/14	TW-DH-RW-2-3 5 - 7 01/10/14	TW-DH-RW-2-3 9 - 11 01/10/14	TW-DH-RW-2-3 13 - 15 01/10/14
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB															
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.6 UY [0.6 UY]	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.6 UY [0.6 UY]	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.6 UY [0.6 UY]	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	3.5 Y [2.9 Y]	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.6 UY [0.6 UY]	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.6 UY [0.6 UY]	0.33 U	0.33 U	0.45	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.6 UY [0.6 UY]	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.33 U	3.5 [2.9]	0.33 U	0.33 U	0.45	0.33 U
Inorganic															
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	790,000	890,000	860,000 [860,000]	810,000	860,000	870,000	820,000

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-2-4 5 - 7 01/10/14	TW-DH-RW-2-4 9 - 11 01/10/14	TW-DH-RW-2-4 13 - 15 01/10/14	TW-DH-RW-2-5 5 - 7 01/10/14	TW-DH-RW-2-5 9 - 11 01/10/14	TW-DH-RW-2-5 13 - 15 01/10/14	TW-DH-RW-2-6 5 - 7 01/10/14
VOC															
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC															
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-2-4 5 - 7 01/10/14	TW-DH-RW-2-4 9 - 11 01/10/14	TW-DH-RW-2-4 13 - 15 01/10/14	TW-DH-RW-2-5 5 - 7 01/10/14	TW-DH-RW-2-5 9 - 11 01/10/14	TW-DH-RW-2-5 13 - 15 01/10/14	TW-DH-RW-2-6 5 - 7 01/10/14
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-2-4 5 - 7 01/10/14	TW-DH-RW-2-4 9 - 11 01/10/14	TW-DH-RW-2-4 13 - 15 01/10/14	TW-DH-RW-2-5 5 - 7 01/10/14	TW-DH-RW-2-5 9 - 11 01/10/14	TW-DH-RW-2-5 13 - 15 01/10/14	TW-DH-RW-2-6 5 - 7 01/10/14
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB															
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Inorganic															
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	860,000	830,000	770,000	900,000	790,000	780,000	870,000

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-2-6 9 - 11 01/10/14	TW-DH-RW-2-6 13 - 15 01/10/14	TW-DH-RW-2-7 5 - 7 01/10/14	TW-DH-RW-2-7 9 - 11 01/10/14	TW-DH-RW-2-7 13 - 15 01/10/14	TW-DH-RW-3-1 3 - 5 12/11/13	TW-DH-RW-3-1 5 - 7 12/11/13
VOC															
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC															
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-2-6 9 - 11 01/10/14	TW-DH-RW-2-6 13 - 15 01/10/14	TW-DH-RW-2-7 5 - 7 01/10/14	TW-DH-RW-2-7 9 - 11 01/10/14	TW-DH-RW-2-7 13 - 15 01/10/14	TW-DH-RW-3-1 3 - 5 12/11/13	TW-DH-RW-3-1 5 - 7 12/11/13
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-2-6 9 - 11 01/10/14	TW-DH-RW-2-6 13 - 15 01/10/14	TW-DH-RW-2-7 5 - 7 01/10/14	TW-DH-RW-2-7 9 - 11 01/10/14	TW-DH-RW-2-7 13 - 15 01/10/14	TW-DH-RW-3-1 3 - 5 12/11/13	TW-DH-RW-3-1 5 - 7 12/11/13
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB															
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.7	0.34
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.55	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.33 U	0.33 U	0.55	0.33 U	0.7	0.34
Inorganic															
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	810,000	800,000	910,000	900,000	800,000	870,000	870,000

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-3-1 9 - 11 12/11/13	TW-DH-RW-3-2 3 - 5 12/12/13	TW-DH-RW-3-2 9 - 11 12/12/13	TW-DH-RW-3-3 3 - 5 12/12/13	TW-DH-RW-3-3 5 - 7 12/12/13	TW-DH-RW-3-3 9 - 11 12/12/13	TW-DH-RW-3-4 3 - 5 12/12/13
VOC															
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC															
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-3-1 9 - 11 12/11/13	TW-DH-RW-3-2 3 - 5 12/12/13	TW-DH-RW-3-2 9 - 11 12/12/13	TW-DH-RW-3-3 3 - 5 12/12/13	TW-DH-RW-3-3 5 - 7 12/12/13	TW-DH-RW-3-3 9 - 11 12/12/13	TW-DH-RW-3-4 3 - 5 12/12/13
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-3-1 9 - 11 12/11/13	TW-DH-RW-3-2 3 - 5 12/12/13	TW-DH-RW-3-2 9 - 11 12/12/13	TW-DH-RW-3-3 3 - 5 12/12/13	TW-DH-RW-3-3 5 - 7 12/12/13	TW-DH-RW-3-3 9 - 11 12/12/13	TW-DH-RW-3-4 3 - 5 12/12/13
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB															
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	3 UY	0.33 U	0.33 U	0.33 U	0.33 U	6 UY	0.33 UG
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	3 UY	0.33 U	0.33 U	0.33 U	0.33 U	6 UY	0.33 UG
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	3 UY	0.33 U	0.33 U	0.33 U	0.33 U	6 UY	0.33 UG
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	**22 Y (NDC (2013))**	0.33 U	1.4	2	1.9	**54 Y (NDC (2013))**	0.8 G
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	3 UY	0.33 U	0.33 U	0.33 U	0.33 U	6 UY	0.33 UG
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	3 UY	0.33 U	0.33 U	0.33 U	0.33 U	6 UY	0.33 UG
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	3 UY	0.33 U	0.33 U	0.33 U	0.33 U	6 UY	0.33 UG
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	**22 (NDC (2013))**	0.33 U	1.4	2	1.9	**54 (NDC (2013))**	0.8
Inorganic															
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	920,000	910,000	880,000	870,000	910,000	830,000	760,000

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-3-4 5 - 7 12/12/13	TW-DH-RW-3-4 9 - 11 12/12/13	TW-DH-RW-3-5 5 - 7 01/09/14	TW-DH-RW-3-5 9 - 11 01/09/14	TW-DH-RW-3-5 13 - 15 01/09/14	TW-DH-RW-3-6 5 - 7 01/09/14	TW-DH-RW-3-6 9 - 11 01/09/14
VOC															
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC															
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA

Table B-2 **Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-3-4 5 - 7 12/12/13	TW-DH-RW-3-4 9 - 11 12/12/13	TW-DH-RW-3-5 5 - 7 01/09/14	TW-DH-RW-3-5 9 - 11 01/09/14	TW-DH-RW-3-5 13 - 15 01/09/14	TW-DH-RW-3-6 5 - 7 01/09/14	TW-DH-RW-3-6 9 - 11 01/09/14
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
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RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-3-4 5 - 7 12/12/13	TW-DH-RW-3-4 9 - 11 12/12/13	TW-DH-RW-3-5 5 - 7 01/09/14	TW-DH-RW-3-5 9 - 11 01/09/14	TW-DH-RW-3-5 13 - 15 01/09/14	TW-DH-RW-3-6 5 - 7 01/09/14	TW-DH-RW-3-6 9 - 11 01/09/14
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB															
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 UG	0.33 UG	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 UG	0.33 UG	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 UG	0.33 UG	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	1.8 G	1 G	0.43	1.7	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 UG	0.33 UG	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 UG	0.33 UG	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 UG	0.33 UG	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	1.8	1	0.43	1.7	0.33 U	0.33 U	0.33 U
Inorganic															
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	820,000	830,000	810,000	860,000	790,000	910,000	830,000

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-3-6 13 - 15 01/09/14	TW-DH-RW-3-7 5 - 7 01/09/14	TW-DH-RW-3-7 5 - 7 01/10/14	TW-DH-RW-3-7 9 - 11 01/09/14	TW-DH-RW-3-7 13 - 15 01/09/14
VOC													
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroetha	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA
SVOC													
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-3-6 13 - 15 01/09/14	TW-DH-RW-3-7 5 - 7 01/09/14	TW-DH-RW-3-7 5 - 7 01/10/14	TW-DH-RW-3-7 9 - 11 01/09/14	TW-DH-RW-3-7 13 - 15 01/09/14
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA

Table B-2

Priority #2 - AOIs 05-1/05-5 Cutting Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-DH-RW-3-6 13 - 15 01/09/14	TW-DH-RW-3-7 5 - 7 01/09/14	TW-DH-RW-3-7 5 - 7 01/10/14	TW-DH-RW-3-7 9 - 11 01/09/14	TW-DH-RW-3-7 13 - 15 01/09/14
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA
PCB													
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Inorganic													
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	810,000	830,000	870,000	810,000	820,000

Table B-3

Priority #2 - AOI 05-1/05-5 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	43-162 09/17/02	43-162 03/19/13	43-165 03/18/13	Doghouse Well 1 08/02/13	Doghouse Well 2 08/02/13	Doghouse Well 3 08/02/13	RFI-05-13 02/06/01	RFI-05-14 02/06/01	RFI-05-14 03/27/13	RFI-05-11 02/06/01	RFI-05-East 03/27/13	RW-05-EAST 09/17/02
VOC													
1,1,1,2-Tetrachloroethane	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA
1,1,2-Trichloroethane	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA
1,1-Dichloroethane	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA
1,1-Dichloroethene	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA
1,2,3-Trichlorobenzene	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	NA	4.7 X	2.7 X	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	0.8 UX	0.9 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	3.9 X	0.7 X	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	0.5 UX	0.9 X	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA
1,2-Dichloropropane	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA
1,3,5-Trimethylbenzene	mg/kg	NA	1.4 X	0.5 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	NA	5 UX	5 UX	NA	NA	NA	0.63 U	13 U	NA	13 U	NA	NA
2-Hexanone	mg/kg	NA	5 UX	5 UX	NA	NA	NA	0.63 U	13 U	NA	13 U	NA	NA
2-Methylnaphthalene	mg/kg	NA	5 X	15 X	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	NA	5 UX	5 UX	NA	NA	NA	0.63 U	13 U	NA	13 U	NA	NA
Acetone	mg/kg	NA	5 UX	5 UX	NA	NA	NA	13	13 U	NA	13 U	NA	NA
Acrylonitrile	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA
Bromobenzene	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA
Bromoform	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA
Bromomethane	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA
Carbon Disulfide	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA
Carbon Tetrachloride	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA
Chlorobenzene	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA
Chloroethane	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA
Chloroform	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA
Chloromethane	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA
cis-1,2-Dichloroethene	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.37	2.5 U	NA	2.5 U	NA	NA
cis-1,3-Dichloropropene	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA
Dibromochloromethane	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA
Dibromomethane	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA

Table B-3

Priority #2 - AOI 05-1/05-5 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	43-162 09/17/02	43-162 03/19/13	43-165 03/18/13	Doghouse Well 1 08/02/13	Doghouse Well 2 08/02/13	Doghouse Well 3 08/02/13	RFI-05-13 02/06/01	RFI-05-14 02/06/01	RFI-05-14 03/27/13	RFI-05-11 02/06/01	RFI-05-East 03/27/13	RW-05-EAST 09/17/02
Hexachloroethane	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	NA	1 UX	1 UX	NA	NA	NA	0.25 U	5 U	NA	5 U	NA	NA
Methyl tert-butyl ether	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	NA	1 UX	1 UX	NA	NA	NA	0.63 U	13 U	NA	13 U	NA	NA
Naphthalene	mg/kg	NA	7 X	18 X	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	NA	1.7 X	1.8 X	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	NA	0.6 X	0.6 X	NA	NA	NA	0.16	2.5 U	NA	2.5 U	NA	NA
p-Isopropyltoluene	mg/kg	NA	1.6 X	0.5 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	NA	0.6 X	0.8 X	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA
tert-Butylbenzene	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA
Tetrahydrofuran	mg/kg	NA	5 UX	5 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13	2.5 U	NA	2.5 U	NA	NA
trans-1,2-Dichloroethene	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA
trans-1,3-Dichloropropene	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	1.1	2.5 U	NA	2.5 U	NA	NA
Trichlorofluoromethane	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	NA	0.5 UX	0.5 UX	NA	NA	NA	0.13 U	2.5 U	NA	2.5 U	NA	NA
Xylenes (total)	mg/kg	NA	0.6	0.6	NA	NA	NA	0.16	2.5 U	NA	2.5 U	NA	NA
SVOC													
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
2,4,5-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
2,4,6-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
2,4-Dichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
2,4-Dimethylphenol	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
2,4-Dinitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	990 U	970 U	NA	980 U	NA	NA
2,4-Dinitrotoluene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
2,6-Dinitrotoluene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
2-Chloronaphthalene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
2-Chlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
2-Methylnaphthalene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
2-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
2-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA	990 U	970 U	NA	980 U	NA	NA
2-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
3&4-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	990 U	970 U	NA	960 U	NA	NA
3,3'-Dichlorobenzidine	mg/kg	NA	NA	NA	NA	NA	NA	990 U	970 U	NA	980 U	NA	NA

Table B-3

Priority #2 - AOI 05-1/05-5 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	43-162 09/17/02	43-162 03/19/13	43-165 03/18/13	Doghouse Well 1 08/02/13	Doghouse Well 2 08/02/13	Doghouse Well 3 08/02/13	RFI-05-13 02/06/01	RFI-05-14 02/06/01	RFI-05-14 03/27/13	RFI-05-11 02/06/01	RFI-05-East 03/27/13	RW-05-EAST 09/17/02
3-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA	990 U	970 U	NA	980 U	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	990 U	970 U	NA	980 U	NA	NA
4-Bromophenyl-phenylether	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
4-Chloro-3-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
4-Chloroaniline	mg/kg	NA	NA	NA	NA	NA	NA	990 U	970 U	NA	980 U	NA	NA
4-Chlorophenyl-phenylether	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
4-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA	990 U	970 U	NA	980 U	NA	NA
4-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	990 U	970 U	NA	980 U	NA	NA
Acenaphthene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Acenaphthylene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Anthracene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Benzo(a)anthracene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Benzo(a)pyrene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Benzo(b)fluoranthene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Benzo(g,h,i)perylene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Benzo(k)fluoranthene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
bis(2-Chloroethyl)ether	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Butylbenzylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Carbazole	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Chrysene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Dibenzo(a,h)anthracene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Dibenzofuran	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Diethylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Dimethylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Di-n-Butylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Di-n-Octylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Fluoranthene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Fluorene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Hexachlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Hexachlorobutadiene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Hexachlorocyclopentadiene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Hexachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Isophorone	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Methylphenols, Total	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Naphthalene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Nitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
N-Nitrosodiphenylamine	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	990 U	970 U	NA	980 U	NA	NA
Phenanthrene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Phenol	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA
Pyrene	mg/kg	NA	NA	NA	NA	NA	NA	250 U	240 U	NA	240 U	NA	NA

Table B-3

Priority #2 - AOI 05-1/05-5 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	43-162 09/17/02	43-162 03/19/13	43-165 03/18/13	Doghouse Well 1 08/02/13	Doghouse Well 2 08/02/13	Doghouse Well 3 08/02/13	RFI-05-13 02/06/01	RFI-05-14 02/06/01	RFI-05-14 03/27/13	RFI-05-11 02/06/01	RFI-05-East 03/27/13	RW-05-EAST 09/17/02
PCB													
Aroclor-1016	mg/kg	NA	3 UY	3 UY	7 UY	3 UY	13 UY	2.9 U	3 U	NA	3 U	NA	NA
Aroclor-1221	mg/kg	NA	3 UY	3 UY	7 UY	3 UY	13 UY	2.9 U	3 U	NA	3 U	NA	NA
Aroclor-1232	mg/kg	NA	3 UY	3 UY	7 UY	3 UY	13 UY	2.9 U	3 U	NA	3 U	NA	NA
Aroclor-1242	mg/kg	NA	3 UY	3 UY	7 UY	3 UY	93 Y	2.9 U	4.6	NA	130	NA	NA
Aroclor-1248	mg/kg	NA	3 UY	33 Y	40 Q	3 UY	13 UY	2.9 U	3 U	NA	3 U	NA	NA
Aroclor-1254	mg/kg	NA	20 Y	3 UY	7 UY	23 Q	13 UY	2.9 U	3 U	NA	20	NA	NA
Aroclor-1260	mg/kg	NA	3 UY	3 UY	7 UY	3 UY	13 UY	2.9 U	3 U	NA	8.7	NA	NA
Total PCBs	mg/kg	NA	20	33	40	23	93	2.9 U	4.6	NA	159	NA	NA
Inorganic													
Antimony	mg/kg	NA	0.5 U	0.5 U	NA	NA	NA	NA	NA	0.5 U	NA	0.5 U	NA
Arsenic	mg/kg	NA	26	27.3	NA	NA	NA	NA	NA	12.9	NA	22.5	NA
Barium	mg/kg	NA	4.03	8.57	NA	NA	NA	NA	NA	1 U	NA	1.6	NA
Beryllium	mg/kg	NA	0.2 U	0.2 U	NA	NA	NA	NA	NA	0.2 U	NA	0.2 U	NA
Cadmium	mg/kg	NA	0.2 U	0.2 U	NA	NA	NA	NA	NA	0.2 U	NA	0.2 U	NA
Chromium Total	mg/kg	NA	7.93	9.2	NA	NA	NA	NA	NA	1.42	NA	3.71	NA
Cobalt	mg/kg	NA	0.5 U	0.5 U	NA	NA	NA	NA	NA	0.5 U	NA	0.5 U	NA
Copper	mg/kg	NA	2.45	5.84	NA	NA	NA	NA	NA	0.99	NA	2.43	NA
Cyanide (total)	mg/kg	NA	2 U	2 U	NA	NA	NA	NA	NA	2 U	NA	2 U	NA
Lead	mg/kg	NA	1.86	3.42	NA	NA	NA	NA	NA	0.3	NA	0.6	NA
Manganese	mg/kg	NA	0.5 U	2.98	NA	NA	NA	NA	NA	1.68	NA	1.38	NA
Mercury	mg/kg	NA	0.05 U	0.05 U	NA	NA	NA	NA	NA	0.05 U	NA	0.05 U	NA
Nickel	mg/kg	NA	4.87	8.18	NA	NA	NA	NA	NA	0.5 U	NA	1.08	NA
Selenium	mg/kg	NA	0.4 U	0.4 U	NA	NA	NA	NA	NA	0.4 U	NA	0.4 U	NA
Silver	mg/kg	NA	0.1 U	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA	0.1 U	NA
Thallium	mg/kg	NA	0.2 U	0.2 U	NA	NA	NA	NA	NA	0.2 U	NA	0.2 U	NA
Vanadium	mg/kg	NA	4.32	5.28	NA	NA	NA	NA	NA	0.88	NA	6.68	NA
Zinc	mg/kg	NA	1 U	2.09	NA	NA	NA	NA	NA	1.22	NA	1.11	NA
Miscellaneous													
Ignitability	deg f	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U
Interfacial Tension	dynes/cm	NA	NA	NA	NA	NA	NA	14	14	NA	15	NA	NA
Specific gravity	sg	NA	NA	NA	NA	NA	NA	0.89	0.89	NA	0.9	NA	NA
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA	330,000	370,000	NA	470,000	NA	NA
Viscosity	cp	NA	NA	NA	NA	NA	NA	4.2	4	NA	3.5	NA	NA

Table B-3

Priority #2 - AOI 05-1/05-5 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	RW-05-EAST 04/01/03	RW-05-NORTH 04/01/03	TW-05-05-1 01/27/14	TW-05-05-2 01/27/14	TW-43-165-2 01/27/14	TW-43-165-4 01/27/14	TW-DH-RW-1-7 02/06/14	TW-DH-RW-3-2 02/06/14	TW-DH-RW-3-5 02/06/14
VOC										
1,1,1,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table B-3

Priority #2 - AOI 05-1/05-5 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	RW-05-EAST 04/01/03	RW-05-NORTH 04/01/03	TW-05-05-1 01/27/14	TW-05-05-2 01/27/14	TW-43-165-2 01/27/14	TW-43-165-4 01/27/14	TW-DH-RW-1-7 02/06/14	TW-DH-RW-3-2 02/06/14	TW-DH-RW-3-5 02/06/14
Hexachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOC										
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table B-3

Priority #2 - AOI 05-1/05-5 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	RW-05-EAST 04/01/03	RW-05-NORTH 04/01/03	TW-05-05-1 01/27/14	TW-05-05-2 01/27/14	TW-43-165-2 01/27/14	TW-43-165-4 01/27/14	TW-DH-RW-1-7 02/06/14	TW-DH-RW-3-2 02/06/14	TW-DH-RW-3-5 02/06/14
3-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table B-3

Priority #2 - AOI 05-1/05-5 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	RW-05-EAST 04/01/03	RW-05-NORTH 04/01/03	TW-05-05-1 01/27/14	TW-05-05-2 01/27/14	TW-43-165-2 01/27/14	TW-43-165-4 01/27/14	TW-DH-RW-1-7 02/06/14	TW-DH-RW-3-2 02/06/14	TW-DH-RW-3-5 02/06/14
PCB										
Aroclor-1016	mg/kg	0.99 U	0.99 U	3 UY	17 UY	3 U	3 U	3 UY	33 UY	10 UY
Aroclor-1221	mg/kg	0.99 U	0.99 U	3 UY	17 UY	3 U	3 U	3 UY	33 UY	10 UY
Aroclor-1232	mg/kg	0.99 U	0.99 U	3 UY	17 UY	3 U	3 U	3 UY	33 UY	10 UY
Aroclor-1242	mg/kg	0.99 U	0.99 U	25 Y	83 Y	3 U	3 U	3 UY	200 Y	70 Y
Aroclor-1248	mg/kg	120 D	0.99 U	3 UY	17 UY	3 U	3 U	3 UY	33 UY	10 UY
Aroclor-1254	mg/kg	0.99 U	0.99 U	3 UY	17 UY	23 Q	30 Q	30 Y	33 UY	10 UY
Aroclor-1260	mg/kg	14	0.99 U	3 UY	17 UY	3 U	3 U	3 UY	33 UY	10 UY
Total PCBs	mg/kg	120	0.99 U	25	83	23	30	30	200	70
Inorganic										
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous										
Ignitability	deg f	NA	NA	NA	NA	NA	NA	NA	NA	NA
Interfacial Tension	dynes/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA
Specific gravity	sg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Viscosity	cp	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C-1

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	RFI-02-05 09/18/01	RFI-02-05 12/16/02	RFI-02-05 11/09/12	RFI-02-05R 10/27/11	RFI-12-11S 09/19/01	RFI-12-11S 06/25/02	RFI-12-15 09/18/01	RFI-12-15 12/16/02	RFI-12-21 12/06/01	RFI-12-24 04/04/03
VOC														
1,1,1-Trichloroethane	ug/L	{ID}	1,300,000 {(S)}	1,330,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	{ID}	77,000	2,970,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	170,000 {(S)}	170,000	1 U [1 U]	NA	30 U	30 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/L	{NA}	110,000	4,420,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	380,000	2,300,000	5,060,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/L	97,000	1,300	2,250,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	ug/L	{NA}	300,000 {(S)}	300,000	5 U [5 U]	NA	2 U	2 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dibromo-3-chloropropane	ug/L	{NA}	1,200 {(S)}	1,230	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U
1,2-Dibromoethane	ug/L	{ID}	15,000	4,200,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	ug/L	{NA}	160,000 {(S)}	156,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/L	2,500,000	59,000	8,520,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/L	550,000	36,000	2,800,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	ug/L	{ID}	41,000	111,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	ug/L	{NA}	74,000 {(S)}	73,800	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	ug/L	{ID}	240,000,000 {(S)}	240,000,000	25 U [25 U]	NA	20 U	20 U	25 U	1.7 J	25 U	35 J	25 U	25 U
2-Hexanone	ug/L	{NA}	8,700,000	16,000,000	50 U [50 U]	NA	50 U	50 U	50 U	50 U	1.2 J	50 U	50 U	50 U
4-Methyl-2-pentanone	ug/L	{ID}	20,000,000 {(S)}	20,000,000	50 U [50 U]	NA	10 U	10 U	50 U	50 U	0.89 J	0.87 J	50 U	50 U
Acetone	ug/L	15,000,000	1,000,000,000 {(D,S)}	1,000,000,000	25 U [25 U]	NA	20 U	20 U	25 U	7.8 J	26	220 D	25 U	25 U
Benzene	ug/L	68,000	35,000	1,750,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	2	2.7	1 U	1 U
Bromodichloromethane	ug/L	{ID}	37,000	6,740,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/L	{ID}	3,100,000 {(S)}	3,100,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U
Bromomethane	ug/L	{ID}	9,000	14,500,000	1 U [1 U]	NA	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	ug/L	13,000	550,000	1,190,000	5 U [5 U]	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	ug/L	{ID}	2,400	793,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U
Chlorobenzene	ug/L	160,000	470,000 {(S)}	472,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/L	110,000	5,700,000 {(S)}	5,740,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	ug/L	{ID}	180,000	7,920,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	ug/L	36,000	45,000	6,340,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	ug/L	530,000	210,000	3,500,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	ug/L	- -	- -	- -	5 U [5 U]	NA	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	ug/L	{ID}	110,000	2,600,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U
Dichlorodifluoromethane	ug/L	{ID}	300,000 {(S)}	300,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	33 J	2.8
Ethylbenzene	ug/L	43,000	170,000 {(S)}	169,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1.3	1.5	1 U	1 U
Isopropylbenzene	ug/L	29,000	56,000 {(S)}	56,000	5 U [5 U]	NA	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
m&p-Xylene	ug/L	- -	- -	- -	2 U [2 U]	NA	2 U	2 U	2 U	2 U	2.2	2.1	2 U	2 U
Methyl acetate	ug/L	- -	- -	- -	5 U [5 U]	NA	10 U	10 U	5 U	5 U	2.5 J	23	5 U	5 U
Methyl tert-butyl ether	ug/L	{ID}	47,000,000 {(S)}	46,800,000	5 U [5 U]	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	ug/L	- -	- -	- -	1 U [1 U]	NA	20 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	ug/L	{ID}	1,400,000	17,000,000	5 U [5 U]	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	ug/L	{NA}	31,000 {(S)}	31,000	NA	NA	5 U	5 U	NA	NA	NA	NA	NA	NA

Table C-1

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	RFI-02-05 09/18/01	RFI-02-05 12/16/02	RFI-02-05 11/09/12	RFI-02-05R 10/27/11	RFI-12-11S 09/19/01	RFI-12-11S 06/25/02	RFI-12-15 09/18/01	RFI-12-15 12/16/02	RFI-12-21 12/06/01	RFI-12-24 04/04/03
n-Propylbenzene	ug/L	{ID}	{ID}	{NA}	NA	NA	1 U	1 U	NA	NA	NA	NA	NA	NA
o-Xylene	ug/L	- -	- -	- -	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1.5	1.6	1 U	1 U
Styrene	ug/L	140,000	310,000 {(S)}	310,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	ug/L	{ID}	170,000	200,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	ug/L	61,000	530,000 {(S)}	526,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	3.8	5.7	1 U	1 U
trans-1,2-Dichloroethene	ug/L	230,000	200,000	6,300,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/L	{ID}	4,900	1,100,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	ug/L	{ID}	1,100,000 {(S)}	1,100,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	ug/L	33,000	13,000	2,760,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	ug/L	70,000	190,000 {(S)}	186,000	1 U [1 U]	NA	1 U	1 U	1 U	1 U	1.5	1.6	1 U	1 U
SVOC														
1,1'-Biphenyl	ug/L	- -	- -	- -	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
2,4,5-Trichlorophenol	ug/L	{ID}	{NLV}	1,200,000	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
2,4,6-Trichlorophenol	ug/L	{ID}	{NLV}	800,000	4.4 U [4.4 U]	NA	NA	NA	4.1 U	NA	4.2 U	NA	4 U	4.4 U
2,4-Dichlorophenol	ug/L	{ID}	{NLV}	4,500,000	11 U [11 U]	NA	NA	NA	10 U	NA	11 U	NA	10 U	11 U
2,4-Dimethylphenol	ug/L	{ID}	{NLV}	7,870,000	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
2,4-Dinitrophenol	ug/L	- -	- -	- -	22 UJ [22 UJ]	NA	NA	NA	21 UJ	NA	21 UJ	NA	20 U	22 U
2,4-Dinitrotoluene	ug/L	{ID}	{NLV}	270,000	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
2,6-Dinitrotoluene	ug/L	- -	- -	- -	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
2-Chloronaphthalene	ug/L	{ID}	{ID}	6,740	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
2-Chlorophenol	ug/L	{ID}	1,100,000	22,000,000	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
2-Methylnaphthalene	ug/L	{ID}	25,000 {(S)}	24,600	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	3.11 J	NA	5 U	5.6 U
2-Methylphenol	ug/L	- -	- -	- -	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	2.15 J	NA	5 U	5.6 U
2-Nitroaniline	ug/L	- -	- -	- -	22 U [22 U]	NA	NA	NA	21 U	NA	21 U	NA	20 U	22 U
2-Nitrophenol	ug/L	{ID}	{NLV}	2,500,000	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
3&4-Methylphenol	ug/L	- -	- -	- -	11 UJ [11 UJ]	NA	NA	NA	10 UJ	NA	4.49 J	NA	10 UJ	11 UJ
3,3'-Dichlorobenzidine	ug/L	{ID}	{NLV}	3,110	22 U [22 U]	NA	NA	NA	21 U	NA	21 U	NA	20 U	22 UJ
3-Methylphenol	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	22 U [22 U]	NA	NA	NA	21 U	NA	21 U	NA	20 U	22 U
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	22 U [22 U]	NA	NA	NA	21 U	NA	21 U	NA	20 U	22 U
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
4-Chloro-3-Methylphenol	ug/L	{ID}	{NLV}	3,900,000	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
4-Chloroaniline	ug/L	- -	- -	- -	22 U [22 U]	NA	NA	NA	21 U	NA	21 U	NA	20 U	22 UJ
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	R [R]	NA	NA	NA	R	NA	R	NA	5 U	5.6 U
4-Nitroaniline	ug/L	- -	- -	- -	22 U [22 U]	NA	NA	NA	21 U	NA	21 U	NA	20 U	22 U
4-Nitrophenol	ug/L	- -	- -	- -	22 U [22 U]	NA	NA	NA	21 U	NA	21 U	NA	20 U	22 U
Acenaphthene	ug/L	{ID}	4,200 {(S)}	4,240	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
Acenaphthylene	ug/L	{ID}	3,900 {(S)}	3,930	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
Acetophenone	ug/L	{ID}	6,100,000 {(S)}	6,100,000	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
Anthracene	ug/L	{ID}	43 {(S)}	43.4	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U

Table C-1

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	RFI-02-05 09/18/01	RFI-02-05 12/16/02	RFI-02-05 11/09/12	RFI-02-05R 10/27/11	RFI-12-11S 09/19/01	RFI-12-11S 06/25/02	RFI-12-15 09/18/01	RFI-12-15 12/16/02	RFI-12-21 12/06/01	RFI-12-24 04/04/03
Atrazine	ug/L	{ID}	{NLV}	70,000	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
Benzaldehyde	ug/L	- -	- -	- -	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 UJ
Benzo(a)anthracene	ug/L	{ID}	{NLV}	9.4	1.1 U [1.1 U]	NA	NA	NA	1 U	NA	1.1 U	NA	1 U	1.1 U
Benzo(a)pyrene	ug/L	{ID}	{NLV}	1.62	**2.2 U [2.2 U]**	NA	NA	NA	**2.1 U**	NA	**2.1 U**	NA	**2 U**	**2.2 U**
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	1.5	**2.2 U [2.2 U]**	NA	NA	NA	**2.1 U**	NA	**2.1 U**	NA	**2 U**	**2.2 U**
Benzo(g,h,i)perylene	ug/L	{ID}	{NLV}	0.26	**5.6 U [5.6 U]**	NA	NA	NA	**5.1 U**	NA	**5.3 U**	NA	**5 U**	**5.6 U**
Benzo(k)fluoranthene	ug/L	{ID}	{NLV}	0.8	**5.6 U [5.6 U]**	NA	NA	NA	**5.1 U**	NA	**5.3 U**	NA	**5 U**	**5.6 U**
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	210,000	17,200,000	1.1 U [1.1 U]	NA	NA	NA	1 U	NA	1.1 U	NA	1 U	1.7 U
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	{NLV}	340	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
Butylbenzylphthalate	ug/L	{ID}	{NLV}	2,690	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
Caprolactam	ug/L	{NA}	{NLV}	5,250,000,000	11 U [11 U]	NA	NA	NA	10 U	NA	11 U	NA	10 U	11 U
Carbazole	ug/L	{ID}	{NLV}	7,480	11 U [11 U]	NA	NA	NA	10 U	NA	1.23 J	NA	10 U	11 U
Chrysene	ug/L	{ID}	{ID}	1.6	**5.6 U [5.6 U]**	NA	NA	NA	**5.1 U**	NA	**5.3 U**	NA	**5 U**	**5.6 U**
Dibenzo(a,h)anthracene	ug/L	{ID}	{NLV}	2.49	2.2 U [2.2 U]	NA	NA	NA	2.1 U	NA	2.1 U	NA	2 U	2.2 U
Dibenzofuran	ug/L	{ID}	10,000 {(S)}	10,000	4.4 U [4.4 U]	NA	NA	NA	4.1 U	NA	4.2 U	NA	4 U	4.4 U
Diethylphthalate	ug/L	{NA}	{NLV}	1,080,000	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
Dimethylphthalate	ug/L	{NA}	{NLV}	4,190,000	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
Di-n-Butylphthalate	ug/L	{NA}	{NLV}	11,200	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
Di-n-Octylphthalate	ug/L	{ID}	{NLV}	3,000	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
Fluoranthene	ug/L	{ID}	210 {(S)}	206	2.2 U [2.2 U]	NA	NA	NA	2.1 U	NA	2.1 U	NA	2 U	2.2 U
Fluorene	ug/L	{ID}	2,000 {(S)}	1,980	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
Hexachlorobenzene	ug/L	{ID}	3,000	6,200	1.1 U [1.1 U]	NA	NA	NA	1 U	NA	1.1 U	NA	1 U	1.1 U
Hexachlorobutadiene	ug/L	{ID}	3,200 {(S)}	3,230	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
Hexachlorocyclopentadiene	ug/L	{ID}	420	1,800	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
Hexachloroethane	ug/L	{ID}	50,000 {(S)}	50,000	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{NLV}	0.022	**2.2 U [2.2 U]**	NA	NA	NA	**2.1 U**	NA	**2.1 U**	NA	**2 U**	**2.2 U**
Isophorone	ug/L	{ID}	{NLV}	12,000,000	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
Methylphenols, Total	ug/L	{NA}	{NLV}	28,000,000	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	2.15 J	NA	5 U	5.6 U
Naphthalene	ug/L	{NA}	31,000 {(S)}	31,000	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	40.5	NA	5 U	5.6 U
Nitrobenzene	ug/L	{NA}	550,000	2,090,000	2.2 U [2.2 U]	NA	NA	NA	2.1 U	NA	2.1 U	NA	2 U	2.2 U
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NLV}	9,890,000	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
N-Nitrosodiphenylamine	ug/L	{ID}	{NLV}	35,100	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
Pentachlorophenol	ug/L	{ID}	{NLV}	1,850,000	22 U [22 U]	NA	NA	NA	21 U	NA	21 U	NA	20 U	22 UJ
Phenanthrene	ug/L	{ID}	1,000 {(S)}	1,000	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	0.853 J	NA	5 U	5.6 U
Phenol	ug/L	{NA}	{NLV}	82,800,000	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	4.02 J	NA	5 U	9.82
Pyrene	ug/L	{ID}	140 {(S)}	135	5.6 U [5.6 U]	NA	NA	NA	5.1 U	NA	5.3 U	NA	5 U	5.6 U
PCB														
Aroclor-1016	ug/L	- -	- -	- -	0.12 U [0.11 U]	NA	NA	NA	0.11 U	NA	0.11 U	NA	0.1 U	0.11 U
Aroclor-1221	ug/L	- -	- -	- -	0.12 U [0.11 U]	NA	NA	NA	0.11 U	NA	0.11 U	NA	0.1 U	0.11 U
Aroclor-1232	ug/L	- -	- -	- -	0.12 U [0.11 U]	NA	NA	NA	0.11 U	NA	0.11 U	NA	0.1 U	0.11 U
Aroclor-1242	ug/L	- -	- -	- -	0.12 U [0.11 U]	NA	NA	NA	0.11 U	NA	0.11 U	NA	0.1 U	0.11 U

Table C-1

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	RFI-02-05 09/18/01	RFI-02-05 12/16/02	RFI-02-05 11/09/12	RFI-02-05R 10/27/11	RFI-12-11S 09/19/01	RFI-12-11S 06/25/02	RFI-12-15 09/18/01	RFI-12-15 12/16/02	RFI-12-21 12/06/01	RFI-12-24 04/04/03
Aroclor-1248	ug/L	- -	- -	- -	0.041 J [0.15]	NA	NA	NA	0.046 J	NA	0.11 U	NA	0.1 U	0.11 U
Aroclor-1254	ug/L	- -	- -	- -	0.12 U [0.11 U]	NA	NA	NA	0.11 U	NA	0.11 U	NA	0.1 U	0.11 U
Aroclor-1260	ug/L	- -	- -	- -	0.12 U [0.11 U]	NA	NA	NA	0.11 U	NA	0.11 U	NA	0.1 U	0.11 U
Total PCBs	ug/L	{ID}	45 {(S)}	44.7	0.041 J [0.15]	NA	NA	NA	0.046 J	NA	0.11 U	NA	0.1 U	0.11 U
PCB-Dissolved														
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	0.11 U [0.11 U]	NA	NA	NA	0.11 U	NA	0.11 U	NA	0.1 U	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	0.11 U [0.11 U]	NA	NA	NA	0.11 U	NA	0.11 U	NA	0.1 U	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	0.11 U [0.11 U]	NA	NA	NA	0.11 U	NA	0.11 U	NA	0.1 U	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	0.11 U [0.11 U]	NA	NA	NA	0.11 U	NA	0.11 U	NA	0.1 U	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	0.18 [0.071 J]	NA	NA	NA	0.026 J	NA	0.11 U	NA	0.1 U	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	0.11 U [0.11 U]	NA	NA	NA	0.11 U	NA	0.11 U	NA	0.1 U	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	0.11 U [0.11 U]	NA	NA	NA	0.11 U	NA	0.11 U	NA	0.1 U	NA
Total PCBs (Dissolved)	ug/L	{ID}	45 {(S)}	44.7	0.18 [0.071 J]	NA	NA	NA	0.026 J	NA	0.11 U	NA	0.1 U	NA
Inorganic														
Antimony	ug/L	{ID}	{NLV}	{NA}	1.2 U [1.2 U]	1.2 U	NA	NA	NA	1.3	NA	NA	1.2 U	0.38 J
Arsenic	ug/L	{ID}	{NLV}	{NA}	1.7 U [0.87 J]	1.4	NA	NA	NA	1 J	NA	NA	7.2	2.3
Barium	ug/L	{ID}	{NLV}	{NA}	330 J [270]	120 J	NA	NA	NA	130	NA	NA	160	59
Beryllium	ug/L	{ID}	{NLV}	{NA}	0.2 J [3.2]	0.4 UJ	NA	NA	NA	0.4 U	NA	NA	0.4 U	0.8 U
Cadmium	ug/L	{ID}	{NLV}	{NA}	0.056 J [0.14 J]	0.11 J	NA	NA	NA	0.2	NA	NA	0.069 J	0.43
Chromium Total	ug/L	- -	- -	- -	0.98 [1]	5	NA	NA	NA	0.68	NA	NA	1.8	1.4
Cobalt	ug/L	{ID}	{NLV}	{NA}	0.39 J [0.45]	0.64 J	NA	NA	NA	1.1	NA	NA	4.6	19
Copper	ug/L	{ID}	{NLV}	{NA}	5 J [4.7]	21 J	NA	NA	NA	9.9	NA	NA	4.4	7.5
Cyanide (total)	ug/L	{ID}	{NLV}	{NA}	1.7 J [1.6 J]	NA	NA	NA	5 U	5 U	5 U	NA	5 U	4.6 J
Lead	ug/L	{ID}	{NLV}	{NA}	0.65 J [0.34 J]	2.1 J	NA	NA	NA	0.43	NA	NA	0.14 J	2.6
Manganese	ug/L	{ID}	{NLV}	{NA}	1,400 J [1,500]	2,000	NA	NA	NA	740 J	NA	NA	310	740 J
Mercury	ug/L	{ID}	56 {(S)}	56	0.2 U [0.2 U]	0.2 U	NA	NA	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U
Nickel	ug/L	{ID}	{NLV}	{NA}	5.7 J [5.5]	12 J	NA	NA	NA	17	NA	NA	12	24
Selenium	ug/L	{ID}	{NLV}	{NA}	1.4 U [0.84 J]	2.2 J	NA	NA	NA	1.2 J	NA	NA	1.4 U	1.6 U
Silver	ug/L	{ID}	{NLV}	{NA}	0.4 U [0.4 U]	0.4 UJ	NA	NA	NA	0.4 UJ	NA	NA	0.35 J	0.4 UJ
Thallium	ug/L	{ID}	{NLV}	{NA}	0.17 J [0.2 U]	0.12 J	NA	NA	NA	0.2 U	NA	NA	0.066 J	0.059 J
Vanadium	ug/L	{ID}	{NLV}	{NA}	0.8 U [0.8 U]	0.27 J	NA	NA	NA	0.33 J	NA	NA	0.44 J	2.4
Zinc	ug/L	{ID}	{NLV}	{NA}	64 J [18]	60 J	NA	NA	NA	24	NA	NA	8	19
Inorganic-Dissolved														
Antimony (Dissolved)	ug/L	{ID}	{NLV}	{NA}	1.2 U [1.2 U]	NA	NA	NA	1.2 U	NA	1.2 U	NA	1.2 U	NA
Arsenic (Dissolved)	ug/L	{ID}	{NLV}	{NA}	1 U [1 U]	NA	NA	NA	1 U	NA	3.4	NA	6.5	NA
Barium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	210 [210]	NA	NA	NA	180	NA	14	NA	120	NA
Beryllium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.4 U [0.4 U]	NA	NA	NA	0.4 U	NA	0.4 U	NA	0.94 J	NA
Cadmium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.2 U [0.2 U]	NA	NA	NA	0.2 U	NA	0.2 U	NA	0.23	NA
Chromium Total (Dissolved)	ug/L	- -	- -	- -	1.2 [0.7]	NA	NA	NA	0.6 U	NA	0.6 U	NA	0.83	NA
Cobalt (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.22 [0.21]	NA	NA	NA	0.81	NA	0.2 U	NA	3.2	NA
Copper (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.6 U [6.8 J]	NA	NA	NA	27	NA	23	NA	0.6 U	NA
Cyanide (dissolved)	ug/L	{ID}	{NLV}	{NA}	0.98 J [1.9 J]	NA	NA	NA	5 UJ	NA	5 UJ	NA	5 U	NA

Table C-1

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	RFI-02-05 09/18/01	RFI-02-05 12/16/02	RFI-02-05 11/09/12	RFI-02-05R 10/27/11	RFI-12-11S 09/19/01	RFI-12-11S 06/25/02	RFI-12-15 09/18/01	RFI-12-15 12/16/02	RFI-12-21 12/06/01	RFI-12-24 04/04/03
Lead (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.4 U [0.4 U]	NA	NA	NA	0.6	NA	0.4 U	NA	0.4 U	NA
Manganese (Dissolved)	ug/L	{ID}	{NLV}	{NA}	880 [880]	NA	NA	NA	310	NA	0.4 U	NA	210	NA
Mercury (Dissolved)	ug/L	- -	- -	- -	0.2 U [0.2 U]	NA	NA	NA	0.2 U	NA	0.2 U	NA	0.2 U	NA
Nickel (Dissolved)	ug/L	{ID}	{NLV}	{NA}	2.2 [2.3]	NA	NA	NA	8.8	NA	1.5	NA	6.9	NA
Selenium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	1.4 U [1.4 U]	NA	NA	NA	2 J	NA	1.5 J	NA	1.4 U	NA
Silver (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.4 UJ [0.4 UJ]	NA	NA	NA	0.4 UJ	NA	0.4 UJ	NA	0.4 U	NA
Thallium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.2 U [0.2 U]	NA	NA	NA	0.2 U	NA	0.2 U	NA	0.3	NA
Vanadium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.8 U [0.8 U]	NA	NA	NA	0.8 U	NA	3.9	NA	0.8 U	NA
Zinc (Dissolved)	ug/L	{ID}	{NLV}	{NA}	13 [17]	NA	NA	NA	28	NA	6.9	NA	6.8	NA
Field Parameters														
Conductivity Field	mS/cm	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH Field	s.u.	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Parameters-Filtered														
Dissolved Oxygen, Field	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C-1

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	RFI-12-24 04/23/03	RFI-12-24 04/06/05	RFI-12-25 04/23/03	RFI-12-32 10/04/04	RFI-12-32 11/01/06	RFI-12-32 03/18/08	RFI-12-32 09/11/08	RFI-12-33 04/07/05	RFI-12-35 09/17/03	RFI-12-35 10/14/03
VOC														
1,1,1-Trichloroethane	ug/L	{ID}	1,300,000 {(S)}	1,330,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
1,1,2,2-Tetrachloroethane	ug/L	{ID}	77,000	2,970,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	170,000 {(S)}	170,000	1 U	NA	1 U	30 U	30 U	30 U	30 U	NA	1 U	NA
1,1,2-Trichloroethane	ug/L	{NA}	110,000	4,420,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
1,1-Dichloroethane	ug/L	380,000	2,300,000	5,060,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
1,1-Dichloroethene	ug/L	97,000	1,300	2,250,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
1,2,4-Trichlorobenzene	ug/L	{NA}	300,000 {(S)}	300,000	5 U	NA	5 U	2 U	2 U	2 UJ	2 U	NA	5 U	NA
1,2-Dibromo-3-chloropropane	ug/L	{NA}	1,200 {(S)}	1,230	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
1,2-Dibromoethane	ug/L	{ID}	15,000	4,200,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
1,2-Dichlorobenzene	ug/L	{NA}	160,000 {(S)}	156,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
1,2-Dichloroethane	ug/L	2,500,000	59,000	8,520,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
1,2-Dichloropropane	ug/L	550,000	36,000	2,800,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
1,3-Dichlorobenzene	ug/L	{ID}	41,000	111,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
1,4-Dichlorobenzene	ug/L	{NA}	74,000 {(S)}	73,800	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
2-Butanone	ug/L	{ID}	240,000,000 {(S)}	240,000,000	1.5 J	NA	1.5 J	30 U	20 U	20 U	20 U	NA	8.5 J	NA
2-Hexanone	ug/L	{NA}	8,700,000	16,000,000	50 U	NA	50 U	50 U	50 U	50 U	50 UJ	NA	50 U	NA
4-Methyl-2-pentanone	ug/L	{ID}	20,000,000 {(S)}	20,000,000	50 U	NA	50 U	1 U	10 U	10 U	10 U	NA	50 U	NA
Acetone	ug/L	15,000,000	1,000,000,000 {(D,S)}	1,000,000,000	8.2 J	NA	6.2 J	30 U	20 U	20 U	20 U	NA	20 J	NA
Benzene	ug/L	68,000	35,000	1,750,000	0.62 J	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
Bromodichloromethane	ug/L	{ID}	37,000	6,740,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
Bromoform	ug/L	{ID}	3,100,000 {(S)}	3,100,000	1 U	NA	1 U	1 UJ	1 U	1 U	1 U	NA	1 UJ	NA
Bromomethane	ug/L	{ID}	9,000	14,500,000	1 U	NA	1 U	2 UJ	2 U	2 U	2 U	NA	1 U	NA
Carbon Disulfide	ug/L	13,000	550,000	1,190,000	5 U	NA	5 U	5 U	5 U	5 U	5 U	NA	5 UJ	NA
Carbon Tetrachloride	ug/L	{ID}	2,400	793,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
Chlorobenzene	ug/L	160,000	470,000 {(S)}	472,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
Chloroethane	ug/L	110,000	5,700,000 {(S)}	5,740,000	1 U	NA	1 U	1 UJ	1 U	1 U	1 U	NA	1 U	NA
Chloroform	ug/L	{ID}	180,000	7,920,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
Chloromethane	ug/L	36,000	45,000	6,340,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 UJ	NA
cis-1,2-Dichloroethene	ug/L	530,000	210,000	3,500,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
Cyclohexane	ug/L	- -	- -	- -	5 U	NA	5 U	1 U	1 UJ	1 U	1 UJ	NA	15	NA
Dibromochloromethane	ug/L	{ID}	110,000	2,600,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
Dichlorodifluoromethane	ug/L	{ID}	300,000 {(S)}	300,000	3.9	NA	1 U	1 U	1 U	1 U	1 UJ	NA	1 U	NA
Ethylbenzene	ug/L	43,000	170,000 {(S)}	169,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
Isopropylbenzene	ug/L	29,000	56,000 {(S)}	56,000	5 U	NA	5 U	1 U	1 U	1 U	1 U	NA	3.8 J	NA
m&p-Xylene	ug/L	- -	- -	- -	2 U	NA	2 U	1 U	1 U	1 U	1 U	NA	0.85 J	NA
Methyl acetate	ug/L	- -	- -	- -	5 U	NA	5 U	10 U	10 U	10 U	10 U	NA	5 UJ	NA
Methyl tert-butyl ether	ug/L	{ID}	47,000,000 {(S)}	46,800,000	5 U	NA	5 U	5 U	5 U	5 U	5 U	NA	5 UJ	NA
Methylcyclohexane	ug/L	- -	- -	- -	1 U	NA	1 U	20 U	20 U	20 UJ	20 U	NA	11	NA
Methylene Chloride	ug/L	{ID}	1,400,000	17,000,000	5 U	NA	5 U	5 U	5 U	5 U	5 U	NA	5 UJ	NA
Naphthalene	ug/L	{NA}	31,000 {(S)}	31,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C-1

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	RFI-12-24 04/23/03	RFI-12-24 04/06/05	RFI-12-25 04/23/03	RFI-12-32 10/04/04	RFI-12-32 11/01/06	RFI-12-32 03/18/08	RFI-12-32 09/11/08	RFI-12-33 04/07/05	RFI-12-35 09/17/03	RFI-12-35 10/14/03
n-Propylbenzene	ug/L	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	ug/L	- -	- -	- -	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	0.58 J	NA
Styrene	ug/L	140,000	310,000 {(S)}	310,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
Tetrachloroethene	ug/L	{ID}	170,000	200,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 UJ	NA
Toluene	ug/L	61,000	530,000 {(S)}	526,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
trans-1,2-Dichloroethene	ug/L	230,000	200,000	6,300,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
Trichloroethene	ug/L	{ID}	4,900	1,100,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
Trichlorofluoromethane	ug/L	{ID}	1,100,000 {(S)}	1,100,000	1 U	NA	1 U	2	2	1 U	2	NA	1 U	NA
Vinyl Chloride	ug/L	33,000	13,000	2,760,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
Xylenes (total)	ug/L	70,000	190,000 {(S)}	186,000	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	0.58 J	NA
SVOC														
1,1'-Biphenyl	ug/L	- -	- -	- -	5 U	0.1 J	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
2,4,5-Trichlorophenol	ug/L	{ID}	{NLV}	1,200,000	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
2,4,6-Trichlorophenol	ug/L	{ID}	{NLV}	800,000	4 U	5 U	4 U	NA	NA	NA	NA	5 U	NA	4.3 U
2,4-Dichlorophenol	ug/L	{ID}	{NLV}	4,500,000	10 U	10 U	10 U	NA	NA	NA	NA	10 U	NA	11 U
2,4-Dimethylphenol	ug/L	{ID}	{NLV}	7,870,000	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
2,4-Dinitrophenol	ug/L	- -	- -	- -	20 U	20 UJ	20 U	NA	NA	NA	NA	20 UJ	NA	22 U
2,4-Dinitrotoluene	ug/L	{ID}	{NLV}	270,000	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
2,6-Dinitrotoluene	ug/L	- -	- -	- -	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
2-Chloronaphthalene	ug/L	{ID}	{ID}	6,740	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
2-Chlorophenol	ug/L	{ID}	1,100,000	22,000,000	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
2-Methylnaphthalene	ug/L	{ID}	25,000 {(S)}	24,600	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
2-Methylphenol	ug/L	- -	- -	- -	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
2-Nitroaniline	ug/L	- -	- -	- -	20 U	20 U	20 U	NA	NA	NA	NA	20 U	NA	22 U
2-Nitrophenol	ug/L	{ID}	{NLV}	2,500,000	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
3&4-Methylphenol	ug/L	- -	- -	- -	10 UJ	NA	10 UJ	NA	NA	NA	NA	NA	NA	11 UJ
3,3'-Dichlorobenzidine	ug/L	{ID}	{NLV}	3,110	20 UJ	20 U	20 UJ	NA	NA	NA	NA	20 U	NA	22 U
3-Methylphenol	ug/L	- -	- -	- -	NA	5 U	NA	NA	NA	NA	NA	5 U	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	20 UJ	20 U	20 UJ	NA	NA	NA	NA	20 U	NA	22 U
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	20 U	20 UJ	20 U	NA	NA	NA	NA	20 UJ	NA	22 U
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
4-Chloro-3-Methylphenol	ug/L	{ID}	{NLV}	3,900,000	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
4-Chloroaniline	ug/L	- -	- -	- -	20 U	20 U	20 U	NA	NA	NA	NA	20 U	NA	22 U
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
4-Nitroaniline	ug/L	- -	- -	- -	20 UJ	20 U	20 UJ	NA	NA	NA	NA	20 U	NA	22 U
4-Nitrophenol	ug/L	- -	- -	- -	20 U	20 UJ	20 U	NA	NA	NA	NA	20 UJ	NA	22 U
Acenaphthene	ug/L	{ID}	4,200 {(S)}	4,240	5 U	5 U	5 U	NA	NA	NA	NA	0.3 J	NA	5.4 U
Acenaphthylene	ug/L	{ID}	3,900 {(S)}	3,930	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
Acetophenone	ug/L	{ID}	6,100,000 {(S)}	6,100,000	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
Anthracene	ug/L	{ID}	43 {(S)}	43.4	5 U	0.2 J	5 U	NA	NA	NA	NA	0.1 J	NA	5.4 U

Table C-1

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	RFI-12-24 04/23/03	RFI-12-24 04/06/05	RFI-12-25 04/23/03	RFI-12-32 10/04/04	RFI-12-32 11/01/06	RFI-12-32 03/18/08	RFI-12-32 09/11/08	RFI-12-33 04/07/05	RFI-12-35 09/17/03	RFI-12-35 10/14/03
Atrazine	ug/L	{ID}	{NLV}	70,000	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
Benzaldehyde	ug/L	- -	- -	- -	5 UJ	5 U	5 UJ	NA	NA	NA	NA	5 U	NA	5.4 U
Benzo(a)anthracene	ug/L	{ID}	{NLV}	9.4	1 U	5 U	1 U	NA	NA	NA	NA	5 U	NA	1.1 U
Benzo(a)pyrene	ug/L	{ID}	{NLV}	1.62	**2 U**	**5 U**	**2 U**	NA	NA	NA	NA	**5 U**	NA	**2.2 U**
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	1.5	**2 U**	**5 U**	**2 U**	NA	NA	NA	NA	**5 U**	NA	**2.2 U**
Benzo(g,h,i)perylene	ug/L	{ID}	{NLV}	0.26	**5 UJ**	**5 U**	**5 UJ**	NA	NA	NA	NA	**5 U**	NA	**5.4 U**
Benzo(k)fluoranthene	ug/L	{ID}	{NLV}	0.8	**5 U**	**5 U**	**5 U**	NA	NA	NA	NA	**5 U**	NA	**5.4 U**
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	210,000	17,200,000	1.5 U	5 U	1.5 U	NA	NA	NA	NA	5 U	NA	1.6 U
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	{NLV}	340	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
Butylbenzylphthalate	ug/L	{ID}	{NLV}	2,690	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
Caprolactam	ug/L	{NA}	{NLV}	5,250,000,000	10 U	10 UJ	10 U	NA	NA	NA	NA	10 UJ	NA	11 U
Carbazole	ug/L	{ID}	{NLV}	7,480	10 U	0.2 J	10 U	NA	NA	NA	NA	10 U	NA	11 U
Chrysene	ug/L	{ID}	{ID}	1.6	**5 U**	**5 U**	**5 U**	NA	NA	NA	NA	**5 U**	NA	**5.4 U**
Dibenzo(a,h)anthracene	ug/L	{ID}	{NLV}	2.49	2 UJ	**5 U**	2 UJ	NA	NA	NA	NA	**5 U**	NA	2.2 U
Dibenzofuran	ug/L	{ID}	10,000 {(S)}	10,000	4 U	0.1 J	4 U	NA	NA	NA	NA	0.3 J	NA	4.3 U
Diethylphthalate	ug/L	{NA}	{NLV}	1,080,000	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
Dimethylphthalate	ug/L	{NA}	{NLV}	4,190,000	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
Di-n-Butylphthalate	ug/L	{NA}	{NLV}	11,200	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
Di-n-Octylphthalate	ug/L	{ID}	{NLV}	3,000	5 UJ	5 U	5 UJ	NA	NA	NA	NA	5 U	NA	5.4 U
Fluoranthene	ug/L	{ID}	210 {(S)}	206	2 U	5 U	2 U	NA	NA	NA	NA	5 U	NA	2.2 U
Fluorene	ug/L	{ID}	2,000 {(S)}	1,980	5 U	0.2 J	5 U	NA	NA	NA	NA	0.5 J	NA	5.4 U
Hexachlorobenzene	ug/L	{ID}	3,000	6,200	1 U	5 U	1 U	NA	NA	NA	NA	5 U	NA	1.1 U
Hexachlorobutadiene	ug/L	{ID}	3,200 {(S)}	3,230	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
Hexachlorocyclopentadiene	ug/L	{ID}	420	1,800	5 U	5 UJ	5 U	NA	NA	NA	NA	5 UJ	NA	5.4 U
Hexachloroethane	ug/L	{ID}	50,000 {(S)}	50,000	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{NLV}	0.022	**2 UJ**	**5 U**	**2 UJ**	NA	NA	NA	NA	**5 U**	NA	**2.2 U**
Isophorone	ug/L	{ID}	{NLV}	12,000,000	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
Methylphenols, Total	ug/L	{NA}	{NLV}	28,000,000	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
Naphthalene	ug/L	{NA}	31,000 {(S)}	31,000	5 U	5 U	5 U	NA	NA	NA	NA	0.2 J	NA	5.4 U
Nitrobenzene	ug/L	{NA}	550,000	2,090,000	2 U	5 U	2 U	NA	NA	NA	NA	5 U	NA	2.2 U
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NLV}	9,890,000	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
N-Nitrosodiphenylamine	ug/L	{ID}	{NLV}	35,100	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
Pentachlorophenol	ug/L	{ID}	{NLV}	1,850,000	20 U	1 U	20 U	NA	NA	NA	NA	1 U	NA	22 U
Phenanthrene	ug/L	{ID}	1,000 {(S)}	1,000	5 U	0.2 J	5 U	NA	NA	NA	NA	0.1 J	NA	5.4 U
Phenol	ug/L	{NA}	{NLV}	82,800,000	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
Pyrene	ug/L	{ID}	140 {(S)}	135	5 U	5 U	5 U	NA	NA	NA	NA	5 U	NA	5.4 U
PCB														
Aroclor-1016	ug/L	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA
Aroclor-1221	ug/L	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA
Aroclor-1232	ug/L	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA
Aroclor-1242	ug/L	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA

Table C-1

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	RFI-12-24 04/23/03	RFI-12-24 04/06/05	RFI-12-25 04/23/03	RFI-12-32 10/04/04	RFI-12-32 11/01/06	RFI-12-32 03/18/08	RFI-12-32 09/11/08	RFI-12-33 04/07/05	RFI-12-35 09/17/03	RFI-12-35 10/14/03
Aroclor-1248	ug/L	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA
Aroclor-1254	ug/L	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA
Aroclor-1260	ug/L	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA
Total PCBs	ug/L	{ID}	45 {(S)}	44.7	0.1 U	NA	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA
PCB-Dissolved														
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA
Total PCBs (Dissolved)	ug/L	{ID}	45 {(S)}	44.7	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA
Inorganic														
Antimony	ug/L	{ID}	{NLV}	{NA}	1.1 J	NA	0.39 J	NA	NA	NA	NA	NA	4.3 J	NA
Arsenic	ug/L	{ID}	{NLV}	{NA}	1.8	NA	1.6 J	NA	NA	NA	NA	NA	60 J	NA
Barium	ug/L	{ID}	{NLV}	{NA}	57	NA	150	NA	NA	NA	NA	NA	610	NA
Beryllium	ug/L	{ID}	{NLV}	{NA}	0.4 U	NA	0.4 U	NA	NA	NA	NA	NA	270 JDM	NA
Cadmium	ug/L	{ID}	{NLV}	{NA}	0.64	NA	0.12 J	NA	NA	NA	NA	NA	6.7 J	NA
Chromium Total	ug/L	- -	- -	- -	0.65	NA	1.1	NA	NA	NA	NA	NA	120	NA
Cobalt	ug/L	{ID}	{NLV}	{NA}	24	NA	1.8	NA	NA	NA	NA	NA	46	NA
Copper	ug/L	{ID}	{NLV}	{NA}	4.9	NA	4.6	NA	NA	NA	NA	NA	89	NA
Cyanide (total)	ug/L	{ID}	{NLV}	{NA}	5 U	NA	5 U	NA	NA	NA	NA	NA	15	NA
Lead	ug/L	{ID}	{NLV}	{NA}	1.5	NA	1.5	NA	NA	NA	NA	NA	59	NA
Manganese	ug/L	{ID}	{NLV}	{NA}	890	NA	400	NA	NA	NA	NA	NA	2,100	NA
Mercury	ug/L	{ID}	56 {(S)}	56	0.2 U	NA	0.2 U	NA	NA	NA	NA	NA	0.0437 J	NA
Nickel	ug/L	{ID}	{NLV}	{NA}	30	NA	24	NA	NA	NA	NA	NA	120	NA
Selenium	ug/L	{ID}	{NLV}	{NA}	2.1	NA	1.7 J	NA	NA	NA	NA	NA	NA	NA
Silver	ug/L	{ID}	{NLV}	{NA}	0.15 J	NA	0.4 UJ	NA	NA	NA	NA	NA	4.4 J	NA
Thallium	ug/L	{ID}	{NLV}	{NA}	0.15 J	NA	0.094 J	NA	NA	NA	NA	NA	3.6	NA
Vanadium	ug/L	{ID}	{NLV}	{NA}	0.74 J	NA	0.8 U	NA	NA	NA	NA	NA	140	NA
Zinc	ug/L	{ID}	{NLV}	{NA}	12	NA	8.3	NA	NA	NA	NA	NA	260 J	NA
Inorganic-Dissolved														
Antimony (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	2.8 J	NA
Arsenic (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	20	NA
Barium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	100	NA
Beryllium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	30 J	NA
Cadmium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	2.7 J	NA
Chromium Total (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	4	NA
Cobalt (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	7.4 J	NA
Copper (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	16 J	NA
Cyanide (dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	24	NA

Table C-1

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	RFI-12-24 04/23/03	RFI-12-24 04/06/05	RFI-12-25 04/23/03	RFI-12-32 10/04/04	RFI-12-32 11/01/06	RFI-12-32 03/18/08	RFI-12-32 09/11/08	RFI-12-33 04/07/05	RFI-12-35 09/17/03	RFI-12-35 10/14/03
Lead (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	1 J	NA
Manganese (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	270	NA
Mercury (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	NA
Nickel (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	27 J	NA
Selenium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	4.1	NA
Silver (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	2 J	NA
Thallium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	0.89 J	NA
Vanadium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	0.8 UJ	NA
Zinc (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	42 J	NA
Field Parameters														
Conductivity Field	mS/cm	- -	- -	- -	NA	NA	NA	NA	NA	0.35	0.658	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	NA	NA	NA	NA	NA	63.8	37.6	NA	NA	NA
pH Field	s.u.	- -	- -	- -	NA	NA	NA	NA	NA	7.62	7.21	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	NA	NA	NA	NA	NA	30	72	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	NA	NA	NA	NA	NA	6.62	20.23	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	NA	NA	NA	NA	NA	0.07	0.61	NA	NA	NA
Field Parameters-Filtered														
Dissolved Oxygen, Field	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	370	360	NA	NA	NA

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-02-05 0.7 - 2 05/18/01	RFI-02-05 2 - 4 05/18/01	RFI-12-01 1.2 - 2 05/15/01	RFI-12-01 6 - 8 05/15/01	RFI-12-02 0.7 - 2 05/15/01
VOC												
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.043 U	0.042 U	0.036 U	0.036 U	0.035 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.087 U	0.084 U	0.072 U	0.073 U	0.07 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.19 U	0.18 U	0.15 U	0.16 U	0.15 U
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.043 U	0.042 U	0.036 U	0.036 U	0.035 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.043 U	0.042 U	0.036 U	0.036 U	0.035 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.043 U	0.042 U	0.036 U	0.036 U	0.035 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.19 U	0.18 U	0.15 UJ	0.16 UJ	0.15 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.19 U	0.18 U	0.15 UJ	0.16 U	0.15 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.19 U	0.18 U	0.15 U	0.16 U	0.15 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.087 U	0.084 U	0.072 U	0.073 U	0.07 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.043 U	0.042 U	0.036 U	0.036 U	0.035 U
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.043 U	0.042 U	0.036 U	0.036 U	0.035 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.087 U	0.084 U	0.072 U	0.073 U	0.07 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.087 U	0.084 U	0.072 U	0.073 U	0.07 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.31 U	0.088 J	0.26 U	0.26 U	0.25 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.31 U	0.3 U	0.26 U	0.26 U	0.25 U
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.31 U	0.3 U	0.26 U	0.26 U	0.25 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.31 U	0.17 J	0.26 U	0.26 U	0.25 U
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.048	0.042 U	0.036 U	0.036 U	0.035 U
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.087 U	0.084 U	0.072 U	0.073 U	0.07 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.087 U	0.084 U	0.072 U	0.073 U	0.07 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.19 UJ	0.18 UJ	0.15 U	0.16 U	0.15 U
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.19 U	0.18 U	0.15 U	0.16 U	0.15 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.043 U	0.042 U	0.036 U	0.036 U	0.035 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.043 U	0.042 U	0.036 U	0.036 U	0.035 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.19 U	0.18 U	0.15 U	0.16 U	0.15 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.043 U	0.042 U	0.036 U	0.036 U	0.035 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.19 U	0.18 U	0.15 U	0.16 U	0.15 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.043 UJ	0.042 UJ	0.036 UJ	0.036 UJ	0.035 UJ
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.043 U	0.042 U	0.036 U	0.036 U	0.035 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.11 J	0.18 UJ	0.15 UJ	0.16 UJ	0.15 UJ
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.087 U	0.084 U	0.072 U	0.073 U	0.07 U
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.087 U	0.084 U	0.072 U	0.073 U	0.07 U
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.14	0.011 J	0.036 U	0.0088 J	0.035 U
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.038 J	0.18 U	0.15 U	0.16 U	0.15 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.67	0.035 J	0.02 J	0.029 J	0.07 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.18 J	0.23	0.099 J	0.15 J	0.07 J
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.31 U	0.3 U	0.26 U	0.26 U	0.25 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.38	0.18 U	0.0061 J	0.16 U	0.15 U
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.19 U	0.18 U	0.15 U	0.16 U	0.15 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.35	0.016 J	0.036 U	0.012 J	0.035 U
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.043 U	0.042 U	0.036 U	0.036 U	0.035 U
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.043 U	0.042 U	0.036 U	0.036 U	0.035 U
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.37	0.042 U	0.018 J	0.036 U	0.035 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.043 U	0.042 U	0.036 U	0.036 U	0.035 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.043 U	0.042 U	0.036 U	0.036 U	0.035 U
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.043 U	0.042 U	0.036 U	0.036 U	0.035 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.087 U	0.084 U	0.072 U	0.073 U	0.07 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.043 U	0.042 U	0.036 U	0.036 U	0.035 U

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-02-05 0.7 - 2 05/18/01	RFI-02-05 2 - 4 05/18/01	RFI-12-01 1.2 - 2 05/15/01	RFI-12-01 6 - 8 05/15/01	RFI-12-02 0.7 - 2 05/15/01
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.35	0.016 J	0.036 U	0.012 J	0.035 U
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.21 U	0.21 U	0.18 U	0.18 U	0.17 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.21 U	0.21 U	0.18 U	0.18 U	0.17 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.21 U	0.21 U	R	0.18 U	0.17 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.21 U	0.21 U	R	0.18 U	0.17 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.21 U	0.21 U	R	0.18 U	0.17 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.21 U	0.21 U	R	0.18 U	0.17 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.84 UJ	0.81 U	R	0.7 U	0.67 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.84 U	0.81 U	0.7 U	0.7 U	0.67 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.21 U	0.21 U	0.18 U	0.18 U	0.17 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.21 U	0.21 U	0.18 U	0.18 U	0.17 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.21 U	0.21 U	R	0.18 U	0.17 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.21 U	0.21 U	0.18 U	0.18 U	0.17 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.21 U	0.21 U	R	0.18 U	0.17 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.84 U	0.81 U	0.7 U	0.7 U	0.67 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.21 U	0.21 U	R	0.18 U	0.17 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.42 U	0.41 U	R	0.36 U	0.34 U
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.84 U	0.81 U	0.7 U	0.7 U	0.67 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.84 U	0.81 U	0.7 U	0.7 U	0.67 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.84 UJ	0.81 U	0.7 U	0.7 U	0.67 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.21 U	0.21 U	0.18 U	0.18 U	0.17 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.21 U	0.21 U	R	0.18 U	0.17 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.84 U	0.81 U	0.7 U	0.7 U	0.67 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.84 U	0.81 U	0.7 U	0.7 U	0.67 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.84 U	0.81 U	0.7 U	0.7 U	0.67 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.84 U	0.81 U	R	0.7 U	0.67 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.21 U	0.21 U	0.18 U	0.0402 J	0.17 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.21 U	0.21 U	0.18 U	0.18 U	0.17 U
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.21 U	0.21 U	0.18 U	0.18 U	0.17 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.0511 J	0.21 U	0.18 U	0.0798 J	0.17 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.21 U	0.21 U	0.18 U	0.18 U	0.17 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.21 UJ	0.21 U	0.18 U	0.18 U	0.17 U
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.0789 J	0.21 U	0.0356 J	0.322	0.17 U
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.0561 J	0.634 J	0.0381 J	0.365	0.17 U
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.0565 J	0.21 U	0.0447 J	0.365	0.17 U
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.21 U	0.21 U	0.18 U	0.252	0.17 U
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.0453 J	0.21 U	0.18 U	0.295	0.17 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.21 U	0.21 U	0.18 U	0.18 U	0.17 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.041 UJ	0.04 U	0.035 U	0.035 U	0.033 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	1.43	0.208	0.18 U	0.254 U	0.17 U
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.21 U	0.21 U	0.18 U	0.18 U	0.17 U
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.21 U	0.21 U	0.18 U	0.18 U	0.17 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.21 U	0.21 U	0.18 U	0.0455 J	0.17 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.0872 J	0.0903 J	0.0381 J	0.374	0.17 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.21 U	0.21 U	0.18 U	0.0986 J	0.17 U
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.083 J	0.21 U	0.18 U	0.0364 J	0.17 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.21 U	0.21 U	0.18 U	0.18 U	0.17 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.21 U	0.21 U	0.18 U	0.18 U	0.17 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.0698 J	0.21 U	0.18 U	0.18 U	0.17 U

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-02-05 0.7 - 2 05/18/01	RFI-02-05 2 - 4 05/18/01	RFI-12-01 1.2 - 2 05/15/01	RFI-12-01 6 - 8 05/15/01	RFI-12-02 0.7 - 2 05/15/01
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.21 U	0.21 U	0.18 U	0.18 U	0.17 U
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.135 J	0.21 U	0.0905 J	0.578	0.17 U
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.21 U	0.21 U	0.18 U	0.18 U	0.17 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.21 U	0.21 U	0.18 U	0.18 U	0.17 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.21 U	0.21 U	0.18 U	0.18 U	0.17 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.21 UJ	0.21 U	0.18 U	0.18 U	0.17 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.21 U	0.21 U	0.18 U	0.18 U	0.17 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.21 U	0.21 U	0.18 U	0.223	0.17 U
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.21 U	0.21 U	0.18 U	0.18 U	0.17 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.21 U	0.21 U	R	0.18 U	0.17 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.11 J	0.21 U	0.18 U	0.0679 J	0.17 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.084 U	0.081 U	0.07 U	0.07 U	0.067 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.21 U	0.21 U	0.18 U	0.18 U	0.17 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.21 U	0.21 U	0.18 U	0.18 U	0.17 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.84 U	0.81 U	R	0.7 U	0.67 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.389	0.0544 J	0.0629 J	0.379	0.17 U
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.21 U	0.21 U	R	0.18 U	0.17 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.139 J	0.0923 J	0.0751 J	0.69	0.17 U
PCB												
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.044 U	0.042 U	0.037 U	0.037 U	0.035 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.044 U	0.042 U	0.037 U	0.037 U	0.035 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.044 U	0.042 U	0.037 U	0.037 U	0.035 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.044 U	0.042 U	0.037 U	0.037 U	0.035 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.044 U	0.042 U	0.037 U	0.037 U	0.035 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.044 U	0.042 U	0.037 U	0.11	0.035 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.044 U	0.042 U	0.013 J	0.076	0.035 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.044 U	0.042 U	0.013 J	0.186	0.035 U
Inorganic												
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.2 J	0.45 J	0.36 U	0.32 U	0.42 U
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	5.3	**6.8 (SDBL (2013))**	4.3	4.8	3.7
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	**88 (SDBL (2013))**	**76 (SDBL (2013))**	30 J	31 J	13 J
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	3.3	0.35	0.23	0.27	0.15 J
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.39	0.33	0.17 J	0.15 J	0.11 J
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	10	11	13 J	15 J	6.8 J
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	**8.2 (SDBL (2013))**	4.5	4	3.6	2.3
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	**39 (SDBL (2013))**	**640 (SDBL (2013))**	10	16	5.8
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.24 J	**0.48 J (SDBL (2013))**	0.2 U	0.2 U	0.2 U
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	19 J	**120 J (SDBL (2013))**	11 J	**24 J (SDBL (2013))**	5.1 J
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	140	340	270 J	340 J	140 J
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.0337 J	0.0425 J	0.071 U	0.0241 J	0.07 U
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	**37 (SDBL (2013))**	11	13	13	7.5
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	**0.57 J (SDBL (2013))**	**1.8 U**	**1.4 U**	**1.3 U**	**1.7 U**
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.13 J	0.35	0.087 J	0.044 J	0.079 J
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.21 J	0.11 J	0.23 U	0.2 U	0.27 U
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	24	17	15 J	13 J	8.9 J
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	**48 J (SDBL (2013))**	**140 J (SDBL (2013))**	35 J	37 J	24 J
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	802,000	826,000	953,000	952,000	1,000,000

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-02 6 - 8 05/15/01	RFI-12-02 8 - 10 05/15/01	RFI-12-02 14 - 16 05/15/01
VOC										
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.04 U [0.043 U]	0.04 U [0.04 U]	0.041 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.081 U [0.087 U]	0.08 U [0.08 U]	0.081 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.17 U [0.19 U]	0.17 U [0.17 U]	0.17 U
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.04 U [0.043 U]	0.04 U [0.04 U]	0.041 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.04 U [0.043 U]	0.04 U [0.04 U]	0.041 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.04 U [0.043 U]	0.04 U [0.04 U]	0.041 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.17 U [0.19 UJ]	0.17 U [0.17 UJ]	0.17 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.17 U [0.19 UJ]	0.17 U [0.17 U]	0.17 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.17 U [0.19 U]	0.17 U [0.17 U]	0.17 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.081 U [0.087 U]	0.08 U [0.08 U]	0.081 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.04 U [0.043 U]	0.04 U [0.04 U]	0.041 U
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.04 U [0.043 U]	0.04 U [0.04 U]	0.041 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.081 U [0.087 U]	0.08 U [0.08 U]	0.081 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.081 U [0.087 U]	0.08 U [0.08 U]	0.081 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.29 U [0.31 U]	0.28 U [0.29 U]	0.29 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.29 U [0.31 U]	0.28 U [0.29 U]	0.29 U
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.29 U [0.31 U]	0.28 U [0.29 U]	0.29 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.13 J [0.31 U]	0.089 J [0.29 U]	0.29 U
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.022 J [0.017 J]	0.019 J [0.022 J]	0.041 U
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.081 U [0.087 U]	0.08 U [0.08 U]	0.081 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.081 U [0.087 U]	0.08 U [0.08 U]	0.081 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.17 U [0.19 U]	0.17 U [0.17 U]	0.17 U
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.17 U [0.19 U]	0.17 U [0.17 U]	0.17 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.04 U [0.043 U]	0.04 U [0.04 U]	0.041 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.04 U [0.043 U]	0.04 U [0.04 U]	0.041 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.17 U [0.19 U]	0.17 U [0.17 U]	0.17 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.04 U [0.043 U]	0.04 U [0.04 U]	0.041 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.17 U [0.19 U]	0.17 U [0.17 U]	0.17 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.04 U [0.043 UJ]	0.04 U [0.04 UJ]	0.041 UJ
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.04 U [0.043 U]	0.04 U [0.04 U]	0.041 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.17 UJ [0.19 UJ]	0.17 UJ [0.067 J]	0.17 UJ
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.081 U [0.087 U]	0.08 U [0.08 U]	0.081 U
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.081 U [0.087 U]	0.08 U [0.08 U]	0.081 U
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.04 U [0.043 U]	0.04 U [0.05]	0.041 U
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.11 J [0.19 U]	0.081 J [0.079 J]	0.17 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.081 U [0.055 J]	0.08 U [0.071 J]	0.081 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.16 J [0.079 J]	0.12 J [0.09 J]	0.17 U
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.29 U [0.31 U]	0.28 U [0.29 U]	0.29 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.58 [0.34]	0.43 [0.42]	0.014 J
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.17 U [0.19 U]	0.17 U [0.17 U]	0.17 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.044 [0.027 J]	0.031 J [0.033 J]	0.041 U
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.04 U [0.043 U]	0.04 U [0.04 U]	0.041 U
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.04 U [0.043 U]	0.04 U [0.04 U]	0.041 U
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.04 U [0.043 U]	0.04 U [0.04 U]	0.041 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.04 U [0.043 U]	0.04 U [0.04 U]	0.041 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.04 U [0.043 U]	0.04 U [0.04 U]	0.041 U
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.04 U [0.043 U]	0.04 U [0.04 U]	0.041 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.081 U [0.087 U]	0.08 U [0.08 U]	0.081 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.04 U [0.043 U]	0.04 U [0.04 U]	0.041 U

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-02 6 - 8 05/15/01	RFI-12-02 8 - 10 05/15/01	RFI-12-02 14 - 16 05/15/01
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.044 [0.027 J]	0.031 J [0.033 J]	0.041 U
SVOC										
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	16 U [1.6 U]	7.6 U [0.76 U]	0.77 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	16 U [1.6 U]	7.6 U [0.76 U]	0.77 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	5.84 [4.86]	4.25 [0.2]	0.2 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	16 U [1.6 U]	7.6 U [0.76 U]	0.77 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	7.9 U [0.83 U]	3.9 U [0.39 U]	0.39 U
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	**39 U**	15 U	0.77 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	16 U [1.6 U]	7.6 U [0.76 U]	0.77 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	16 UJ [8.2 UJ]	7.6 U [0.76 U]	0.77 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	4 UJ [2.1 UJ]	1.9 U [0.19 U]	0.2 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	16 U [1.6 U]	7.6 U [0.76 U]	0.77 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	16 U [1.6 U]	7.6 U [0.76 U]	0.77 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	16 U [1.6 U]	7.6 U [0.76 U]	0.77 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	16 UJ [8.2 UJ]	7.6 UJ [0.76 U]	0.77 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	4 UJ [2.1 UJ]	1.9 U [0.19 U]	0.2 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	4 UJ [2.1 UJ]	1.9 U [0.19 U]	0.2 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	9.9 U	3.9 U	0.2 U
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	**9.9 UJ**	1.9 U [0.19 U]	0.2 U
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	9.9 UJ	3.9 U	0.2 U
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	9.9 UJ	3.9 U	0.2 U
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	9.9 UJ	3.9 U	0.2 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.77 U [0.081 U]	0.37 U [0.037 U]	0.038 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	4 U [2.1 UJ]	1.9 U [0.19 U]	0.2 U
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	4 U [2.1 UJ]	3.9 U	0.2 U
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	4 UJ [2.1 UJ]	1.9 U [0.19 U]	0.2 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	9.9 U	3.9 U	0.2 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	4 U [R]	3.9 U	0.2 U
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	4 U [0.42 U]	1.9 U [0.0907 J]	0.2 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	4 UJ [2.1 UJ]	1.9 U [0.19 U]	0.2 U

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-02 6 - 8 05/15/01	RFI-12-02 8 - 10 05/15/01	RFI-12-02 14 - 16 05/15/01
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	9.9 UJ	3.9 U	0.2 U
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	4 UJ [2.1 UJ]	1.9 U [0.19 U]	0.2 U
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	4 U [0.42 U]	1.9 U [0.206]	0.2 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	4 UJ [2.1 UJ]	1.9 U [0.19 U]	0.2 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	9.9 UJ	3.9 U	0.2 U
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.955 J [0.818]	0.691 J [0.19 U]	0.2 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	1.6 U [0.16 U]	0.76 U [0.076 U]	0.077 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	**9.9 UJ**	1.9 U [0.19 U]	0.2 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	16 UJ [8.2 UJ]	7.6 U [0.76 U]	0.77 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	4.63 J [4.45 J]	3.7 [0.19 U]	0.2 U
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	4 U [0.42 U]	1.9 U [0.19 U]	0.2 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	2.12 J	3.9 U	0.2 U
PCB										
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.041 U [0.043 U]	0.04 U [0.04 U]	0.04 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.041 U [0.043 U]	0.04 U [0.04 U]	0.04 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.041 U [0.043 U]	0.04 U [0.04 U]	0.04 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.041 U [0.043 U]	0.04 U [0.04 U]	0.04 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.041 U [0.043 U]	0.04 U [0.04 U]	0.04 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.041 U [0.043 U]	0.04 U [0.04 U]	0.04 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.041 U [0.043 U]	0.04 U [0.04 U]	0.04 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.041 U [0.043 U]	0.04 U [0.04 U]	0.04 U
Inorganic										
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.37 U [0.35 U]	0.34 U [0.29 U]	0.46 U
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	**5.9 (SDBL (2013)) [5.8]**	**10 (SDBL (2013)) [8.4 (SDBL (2013))]**	5.4
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	**150 J (SDBL (2013)) [110 J (SDBL (2013))]**	**130 J (SDBL (2013)) [75 J]**	39
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.25 [0.85]	0.7 [0.55]	0.39
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.18 J [0.47 J]	0.58 J [0.14 J]	0.12
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	16 J [17 J]	**22 J (SDBL (2013)) [17 J]**	11
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	**3.8 [9.3 (SDBL (2013))]**	**17 (SDBL (2013)) [8.9 (SDBL (2013))]**	5.4
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	**54 (SDBL (2013)) [11]**	16 [10]	10
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.2 U [0.2 U]	0.2 U [0.0097 J]	0.0078 J
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**11,000 J (NDC (2013),SDBL (2013)) [8,700 J (NDC (2013),SDBL (2013))]**	**260 J (SDBL (2013)) [840 J (SDBL (2013))]**	8.3
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	42 J [120 J]	**1,300 J (SDBL (2013)) [510 J (SDBL (2013))]**	200
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.0672 J [0.042 J]	0.0332 J [0.0274 J]	0.078 U
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	9.2 [19]	**24 (SDBL (2013)) [19]**	14
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	**0.56 J (SDBL (2013)) [0.46 J (SDBL (2013))]**	**0.49 J (SDBL (2013)) [1.2 U]**	**1.8 U**
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.13 J [0.2]	0.08 J [0.067 J]	0.1 J
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.24 U [0.22 U]	0.22 U [0.19 U]	0.18 J
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	20 J [26 J]	32 J [28 J]	19
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	**29 J [74 J (SDBL (2013))]**	**80 J (SDBL (2013)) [44 J]**	34
Miscellaneous										
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	858,000 [817,000]	882,000 [881,000]	870,000

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-03 0 - 2 05/23/01	RFI-12-03 4 - 5.1 05/23/01	RFI-12-04 0 - 2 05/15/01	RFI-12-04 8 - 10 05/15/01	RFI-12-05 2 - 4 05/15/01	RFI-12-06 1.2 - 3.2 05/24/01
VOC													
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.039 U	0.041 U	0.037 U	0.043 U	0.037 U	0.042 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.078 U	0.082 U	0.075 U	0.085 U	0.073 U	0.084 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.17 U	0.18 U	0.16 U	0.18 U	0.16 U	0.18 U
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.039 U	0.041 U	0.037 U	0.043 U	0.037 U	0.042 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.039 U	0.041 U	0.037 U	0.043 U	0.037 U	0.042 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.039 U	0.041 U	0.037 U	0.043 U	0.037 U	0.042 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.17 U	0.18 U	0.16 U	0.18 U	0.16 UJ	0.18 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.17 U	0.18 U	0.16 U	0.18 U	0.16 UJ	0.18 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.17 U	0.18 U	0.16 U	0.18 U	0.16 U	0.18 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.078 U	0.082 U	0.075 U	0.085 U	0.073 U	0.084 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.014 J	0.015 J	0.037 U	0.043 U	0.037 U	0.016 J
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.039 U	0.041 U	0.037 U	0.043 U	0.037 U	0.042 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.078 U	0.082 U	0.075 U	0.085 U	0.073 U	0.084 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.078 U	0.082 U	0.075 U	0.085 U	0.073 U	0.084 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.28 U	0.29 U	0.27 U	0.3 U	0.26 U	0.3 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.28 U	0.29 U	0.27 U	0.3 U	0.26 U	0.3 U
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.28 U	0.29 U	0.27 U	0.3 U	0.26 U	0.3 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.28 U	0.29 U	0.27 U	0.3 U	0.26 U	0.3 U
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.039 U	0.041 U	0.037 U	0.043 U	0.037 U	0.042 U
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.078 U	0.082 U	0.075 U	0.085 U	0.073 U	0.084 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.078 U	0.082 U	0.075 U	0.085 U	0.073 U	0.084 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.17 U	0.18 U	0.16 U	0.18 U	0.16 U	0.18 U
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.17 U	0.18 U	0.16 U	0.18 U	0.16 U	0.18 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.039 U	0.041 U	0.037 U	0.043 U	0.037 U	0.042 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.039 U	0.041 U	0.037 U	0.043 U	0.037 U	0.042 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.17 U	0.18 U	0.16 U	0.18 U	0.16 U	0.18 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.039 U	0.041 U	0.037 U	0.043 U	0.037 U	0.042 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.17 U	0.18 U	0.16 U	0.18 U	0.16 U	0.18 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.039 U	0.041 U	0.037 UJ	0.043 UJ	0.037 UJ	0.042 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.039 U	0.041 U	0.037 U	0.043 U	0.037 U	0.042 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.17 U	0.18 U	0.16 UJ	0.18 UJ	0.16 UJ	0.18 U
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.078 U	0.082 U	0.075 U	0.085 U	0.073 U	0.084 U
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.078 U	0.082 U	0.075 U	0.085 U	0.073 U	0.084 U
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.039 U	0.041 U	0.037 U	0.043 U	0.037 U	0.042 U
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.17 U	0.18 U	0.16 U	0.18 U	0.16 U	0.18 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.027 J	0.082 U	0.075 U	0.085 U	0.073 U	0.084 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	2.3	0.18 U	0.16 U	0.18 U	0.012 J	0.18 U
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.28 U	0.29 U	0.27 U	0.3 U	0.26 U	0.3 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.02 J	0.017 J	0.0064 J	0.018 J	0.16 U	0.18 U
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.17 U	0.18 U	0.16 U	0.18 U	0.16 U	0.18 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.015 J	0.041 U	0.037 U	0.012 J	0.037 U	0.042 U
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.039 U	0.041 U	0.037 U	0.043 U	0.037 U	0.042 U
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.19	0.38	0.09	0.027 J	0.037 U	0.042 U
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.039 U	0.041 U	0.037 U	0.043 U	0.037 U	0.042 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.039 U	0.041 U	0.037 U	0.043 U	0.037 U	0.042 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.039 U	0.041 U	0.037 U	0.043 U	0.037 U	0.042 U
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.039 U	0.041 U	0.037 U	0.043 U	0.037 U	0.042 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.078 U	0.082 U	0.075 U	0.085 U	0.073 U	0.084 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.039 U	0.041 U	0.037 U	0.043 U	0.037 U	0.042 U

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-03 0 - 2 05/23/01	RFI-12-03 4 - 5.1 05/23/01	RFI-12-04 0 - 2 05/15/01	RFI-12-04 8 - 10 05/15/01	RFI-12-05 2 - 4 05/15/01	RFI-12-06 1.2 - 3.2 05/24/01
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.015 J	0.041 U	0.037 U	0.012 J	0.037 U	0.042 U
SVOC													
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.613	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	1.5 U	0.79 UJ	0.72 U	0.82 U	0.7 U	0.79 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.0747 J	0.79 U	0.72 U	0.82 U	0.7 U	0.79 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	2.14	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	1.5 U	0.79 U	0.72 U	0.82 U	0.7 U	0.79 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.76 U	0.4 U	0.37 U	0.41 U	0.35 U	0.4 U
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	1.5 U	0.79 U	7.2 U	0.82 U	0.7 U	0.79 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	1.5 U	0.79 U	0.72 U	0.82 U	0.7 U	0.79 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	1.5 U	0.79 U	0.72 U	0.82 U	0.7 U	0.79 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	1.5 U	0.79 U	0.72 U	0.82 U	0.7 U	0.79 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	1.5 U	0.79 U	0.72 U	0.82 U	0.7 U	0.79 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	1.5 U	0.79 U	0.72 U	0.82 U	0.7 U	0.79 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	1.5 U	0.79 U	0.72 UJ	0.82 U	0.7 U	0.79 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	3.26	0.124 J	0.18 U	0.21 U	0.0669 J	0.2 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 UJ
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.619	0.086 J	0.0545 J	0.21 U	0.0833 J	0.2 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.855	0.0612 J	0.223 J	0.21 U	0.0933 J	0.2 U
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.706 J	0.2 U	0.262 J	0.21 U	0.0423 J	0.2 U
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.744 J	0.2 U	0.361 J	0.21 U	0.0604 J	0.2 U
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.648 J	0.2 U	0.217 J	0.21 U	0.18 U	0.2 U
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.682 J	0.2 U	0.297 J	0.21 U	0.0572 J	0.2 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.073 U	0.039 U	0.036 U	0.04 U	0.034 U	0.039 UJ
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.192 J	0.2 U	0.18 UJ	0.21 U	0.18 U	0.2 U
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.168 J	0.2 U	0.18 UJ	0.21 U	0.18 U	0.2 U
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 UJ
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.266 J	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.849	0.0576 J	0.249 J	0.21 U	0.0857 J	0.2 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.232 J	0.2 U	1.8 U	0.21 U	0.18 U	0.2 U
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	1.83	0.104 J	0.18 U	0.21 U	0.117 J	0.2 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-03 0 - 2 05/23/01	RFI-12-03 4 - 5.1 05/23/01	RFI-12-04 0 - 2 05/15/01	RFI-12-04 8 - 10 05/15/01	RFI-12-05 2 - 4 05/15/01	RFI-12-06 1.2 - 3.2 05/24/01
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.38 UJ	0.2 U	1.8 U	0.21 U	0.18 U	0.2 U
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	2.12	0.354	0.256	0.21 U	0.583	0.2 U
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	1.54	0.114 J	0.18 U	0.21 U	0.0385 J	0.2 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.581 J	0.2 U	1.8 U	0.21 U	0.18 U	0.2 U
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	2.88	0.112 J	0.18 U	0.21 U	0.18 U	0.2 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.15 U	0.079 U	0.072 U	0.082 U	0.07 U	0.079 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	1.5 U	0.79 U	0.72 U	0.82 U	0.7 U	0.79 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	3.73	0.522	0.175 J	0.21 U	1.01	0.2 U
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.38 U	0.2 U	0.18 U	0.21 U	0.18 U	0.2 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	3.16	0.219	0.963 J	0.21 U	0.424	0.2 U
PCB													
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.041 U	0.038 U	0.043 U	0.036 U	0.042 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.041 U	0.038 U	0.043 U	0.036 U	0.042 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.041 U	0.038 U	0.043 U	0.036 U	0.042 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.041 U	0.038 U	0.043 U	0.036 U	0.042 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.041 U	0.038 U	0.043 U	0.036 U	0.042 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.019 J	0.041 U	0.038 U	0.043 U	0.036 U	0.042 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.035 J	0.041 U	0.038 U	0.043 U	0.036 U	0.042 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.054 J	0.041 U	0.038 U	0.043 U	0.036 U	0.042 U
Inorganic													
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.33 J	0.42 U	0.39 U	0.39 U	0.3 U	0.43 UJ
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	4.4 J	1.1 J	4.5	**8.9 (SDBL (2013))**	3.8	3.5 J
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	50 J	12 J	36 J	**88 J (SDBL (2013))**	38 J	44 J
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.31 J	0.16 J	0.23	0.67	0.28	0.37 J
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.24	0.041	0.25 J	0.14 J	0.081 J	0.11 J
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	**19 (SDBL (2013))**	3.6	16 J	**20 J (SDBL (2013))**	7 J	9 J
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	3.3	0.84	3.2	**9.7 (SDBL (2013))**	2.6	3 J
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	15	3.1	15	17	7.3	7.7 J
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.25	0.046 J	0.2 U	0.2 U	0.2 U	0.023 J
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**34 J (SDBL (2013))**	3.6 J	20 J	12 J	5.8 J	5.5 J
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	280 J	61 J	**450 J (SDBL (2013))**	**740 J (SDBL (2013))**	130 J	160
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.0455 J	0.083 U	0.0206 J	0.0208 J	0.069 U	0.0676 J
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	14	2.7	13	**26 (SDBL (2013))**	7.7	11 J
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	**1.7 U**	**1.7 U**	**1.6 U**	**1.6 U**	**0.7 J (SDBL (2013))**	**0.7 J (SDBL (2013))**
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.14 J	0.059 J	0.048 J	0.096 J	0.14 U	0.047 J
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.26 U	0.27 U	0.25 U	0.23 J	0.19 U	0.098 J
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	13	6.2	12 J	31 J	9.9 J	12 J
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	**70 (SDBL (2013))**	13	**54 J (SDBL (2013))**	**50 J (SDBL (2013))**	25 J	18 J
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	900,000	844,000	929,000	820,000	960,000	843,000

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-06 7.2 - 9.2 05/24/01	RFI-12-07 0.9 - 2 05/10/01	RFI-12-07 8 - 10 05/10/01	RFI-12-07 12 - 14 05/10/01	RFI-12-08 0.9 - 2 05/11/01	RFI-12-08 6 - 8 05/11/01
VOC													
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.081 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.17 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.17 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.17 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.17 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.081 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.014 J	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.081 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.081 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.29 U	0.27 U	0.26 U	0.26 U	0.26 U	0.26 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.29 U	0.27 U	0.26 U	0.26 U	0.26 U	0.26 U
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.29 U	0.27 U	0.26 U	0.26 U	0.26 U	0.26 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.096 J	0.27 U	0.26 U	0.26 U	0.26 U	0.13 J
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.081 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.081 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.17 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.17 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.17 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.17 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.17 U	0.16 U	0.16 U	0.16 U	0.16 UJ	0.16 UJ
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.081 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.081 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.04 U	0.037 U	0.04	0.037 U	0.037 U	0.037 U
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.17 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.081 U	0.043 J	0.15	0.074 U	0.074 U	0.051 J
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.025 J	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.29 U	0.27 U	0.26 U	0.26 U	0.26 U	0.26 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.17 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.17 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.04 U	0.037 U	0.047	0.037 U	0.037 U	0.037 U
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.081 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-06 7.2 - 9.2 05/24/01	RFI-12-07 0.9 - 2 05/10/01	RFI-12-07 8 - 10 05/10/01	RFI-12-07 12 - 14 05/10/01	RFI-12-08 0.9 - 2 05/11/01	RFI-12-08 6 - 8 05/11/01
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.04 U	0.037 U	0.047	0.037 U	0.037 U	0.037 U
SVOC													
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.2 UJ	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.77 U	0.71 U	0.71 U	0.7 U	0.7 U	0.72 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.77 U	0.71 U	0.71 U	0.7 U	0.7 U	0.72 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.2 U	0.216	0.206	0.18 U	0.18 U	0.18 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.77 U	0.71 U	0.71 U	0.7 U	0.7 U	0.72 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.39 U	0.36 U	0.36 U	0.36 U	0.36 U	0.37 U
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.77 U	0.71 U	0.71 U	0.7 U	7 UD	0.72 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.77 U	0.71 U	0.71 U	0.7 U	0.7 U	0.72 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.77 U	0.71 U	0.71 U	0.7 U	7 UD	0.72 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.18 U	0.18 U	0.18 U	1.8 UD	0.18 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.77 U	0.71 UJ	0.71 UJ	0.7 UJ	0.7 U	0.72 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.77 U	0.71 U	0.71 U	0.7 U	0.7 U	0.72 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.77 U	0.71 U	0.71 U	0.7 U	0.7 U	0.72 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.77 U	0.71 U	0.71 U	0.7 U	0.7 U	0.72 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.2 UJ	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	1.8 UD	0.18 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	1.8 UD	0.18 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.18 UJ	0.18 U	0.18 U	0.18 UJ	0.18 U
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.481 JD	0.18 U
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.784 JD	0.18 U
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.93 JD	0.18 U
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.634 JD	0.18 U
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.634 JD	0.18 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.038 U	0.035 U	0.035 U	0.035 U	0.035 U	0.036 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	1.8 UD	0.18 U
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.101 J	0.235	0.14 J	1.8 UD	0.18 U
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.2 UJ	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	1.8 UD	0.18 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.655 JD	0.0713 J
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	1.8 UDJ	0.18 U
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.0685 J	0.0547 J	0.18 U	0.18 U	0.18 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	1.8 UD	0.18 U

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-06 7.2 - 9.2 05/24/01	RFI-12-07 0.9 - 2 05/10/01	RFI-12-07 8 - 10 05/10/01	RFI-12-07 12 - 14 05/10/01	RFI-12-08 0.9 - 2 05/11/01	RFI-12-08 6 - 8 05/11/01
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.18 UJ	0.18 U
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.2 U	0.084 J	0.0403 J	0.0411 J	0.808 JD	0.05 J
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.0583 J
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	1.8 UD	0.18 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.505 JD	0.18 U
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 UJ	0.18 UJ	0.18 U	0.18 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.2 U	0.0925 J	0.101 J	0.0506 J	0.18 U	0.18 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.077 U	0.071 U	0.071 U	0.07 U	0.07 U	0.072 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	1.8 UD	0.18 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.77 U	0.71 U	0.71 U	0.7 U	0.7 U	0.72 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.2 U	0.0823 J	0.0657 J	0.0547 J	0.439 JD	0.0662 J
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.2 U	0.0812 J	0.18 U	0.045 J	0.833 JD	0.077 J
PCB													
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.038 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.038 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.038 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.038 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.038 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.038 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.038 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.04 U	0.037 U	0.037 U	0.037 U	0.037 U	0.038 U
Inorganic													
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.45 UJ	0.42 J	0.42	0.27 J	0.36 U	0.32 U
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	5.1 J	**7.8 J (SDBL (2013))**	**11 J (SDBL (2013))**	**6.7 J (SDBL (2013))**	3.9 J	4.3 J
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	58 J	19 J	21 J	12 J	26 J	**87 J (SDBL (2013))**
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.47 J	0.17 J	0.16 J	0.11 J	0.46 J	0.31 J
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.18 J	0.084 J	0.079 J	0.06 J	0.27 J	0.47 J
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	12 J	**92 J (SDBL (2013))**	**110 J (SDBL (2013))**	**71 J (SDBL (2013))**	11 J	13 J
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	4.3 J	5.9 J	4.8 J	3.9 J	2.8 J	4.6 J
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	11 J	**64 J (SDBL (2013))**	**80 J (SDBL (2013))**	**52 J (SDBL (2013))**	17 J	26 J
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.018 J	0.074 J	0.079 J	0.065 J	0.2 U	0.027 J
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	6.2 J	6.8	6.7	4.6	**24 J (SDBL (2013))**	11 J
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	210	**500 (SDBL (2013))**	400	430	220	180
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.0219 J	0.071 U	0.073 U	0.073 U	0.0173 J	0.0235 J
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	14 J	**70 J (SDBL (2013))**	**49 J (SDBL (2013))**	**50 J (SDBL (2013))**	11	9.6
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	**0.72 J (SDBL (2013))**	**1.8 U**	**1.6 U**	**1.5 U**	**1.5 U**	**0.64 J (SDBL (2013))**
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.058 J	0.42 J	0.4 J	0.2 J	0.063 J	0.13 J
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.16 J	0.29 U	0.26 U	0.28 U	0.23 UJ	0.2 UJ
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	17 J	7.4 J	10 J	7.8 J	12 J	16 J
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	24 J	13 J	15 J	9.2 J	44 J	**150 J (SDBL (2013))**
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	867,000	943,000	943,000	955,000	956,000	925,000

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-08 8 - 10 05/11/01	RFI-12-08 16 - 18 05/11/01	RFI-12-10 4 - 6 05/25/01	RFI-12-10 6 - 8 05/25/01	RFI-12-11D 1.1 - 3.1 06/05/01
VOC												
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.043 U	0.038 U	0.04 U	0.044 U	0.037 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.087 U	0.077 U	0.079 U	0.087 U	0.074 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.19 U	0.16 U	0.17 U	0.19 U	0.16 U
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.043 U	0.038 U	0.04 U	0.044 U	0.037 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.043 U	0.038 U	0.04 U	0.044 U	0.037 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.043 U	0.038 U	0.04 U	0.044 U	0.037 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.19 U	0.16 U	0.17 U	0.19 U	0.16 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.19 U	0.16 U	0.17 U	0.19 U	0.16 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.19 U	0.16 U	0.17 U	0.19 U	0.16 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.087 U	0.077 U	0.079 U	0.087 U	0.074 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.043 U	0.038 U	0.04 U	0.015 J	0.037 U
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.043 U	0.038 U	0.04 U	0.044 U	0.037 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.087 U	0.077 U	0.079 U	0.087 U	0.074 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.087 U	0.077 U	0.079 U	0.087 U	0.074 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.31 U	0.27 U	0.28 UJ	0.31 UJ	0.26 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.31 U	0.27 U	0.28 U	0.31 U	0.26 U
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.31 U	0.27 U	0.28 U	0.31 U	0.26 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.063 J	0.062 J	0.28 UJ	0.31 UJ	0.26 U
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.043 U	0.038 U	0.04 U	0.044 U	0.037 U
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.087 U	0.077 U	0.079 U	0.087 U	0.074 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.087 U	0.077 U	0.079 U	0.087 U	0.074 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.19 U	0.16 U	0.17 U	0.19 U	0.16 U
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.19 U	0.16 U	0.17 U	0.19 U	0.16 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.043 U	0.038 U	0.04 U	0.044 U	0.037 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.043 U	0.038 U	0.04 U	0.044 U	0.037 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.19 U	0.16 U	0.17 U	0.19 U	0.16 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.043 U	0.038 U	0.04 U	0.044 U	0.037 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.19 U	0.16 U	0.17 U	0.19 U	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.043 U	0.038 U	0.04 U	0.044 U	0.037 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.043 U	0.038 U	0.04 U	0.044 U	0.037 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.19 UJ	0.16 UJ	0.17 U	0.19 U	0.16 U
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.087 U	0.077 U	0.079 U	0.087 U	0.074 U
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.087 U	0.077 U	0.079 U	0.087 U	0.074 U
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.043 U	0.038 U	0.04 U	0.044 U	0.037 U
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.19 U	0.16 U	0.17 U	0.19 U	0.16 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.087 U	0.077 U	0.079 U	0.087 U	0.074 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.16 U	0.054 J	0.021 J	0.16 U
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.31 U	0.27 U	0.28 U	0.31 U	0.26 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.16 U	0.018 J	0.024 J	0.032 J
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.19 U	0.16 U	0.17 U	0.19 U	0.16 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.043 U	0.038 U	0.04 U	0.044 U	0.037 U
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.043 U	0.038 U	0.04 U	0.044 U	0.037 U
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.043 U	0.038 U	0.04 U	0.044 U	0.037 U
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.043 U	0.038 U	0.04 U	0.044 U	0.037 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.043 U	0.038 U	0.04 U	0.044 U	0.037 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.043 U	0.038 U	0.04 U	0.044 U	0.037 U
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.043 U	0.038 U	0.04 U	0.044 U	0.037 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.087 U	0.077 U	0.079 U	0.087 U	0.074 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.043 U	0.038 U	0.04 U	0.044 U	0.037 U

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-08 8 - 10 05/11/01	RFI-12-08 16 - 18 05/11/01	RFI-12-10 4 - 6 05/25/01	RFI-12-10 6 - 8 05/25/01	RFI-12-11D 1.1 - 3.1 06/05/01
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.043 U	0.038 U	0.04 U	0.044 U	0.037 U
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.21 U	0.19 U	1.9 U	0.21 U	0.18 UJ
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.82 U	0.73 U	7.6 U	0.83 U	0.72 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.82 U	0.73 U	7.6 U	0.83 U	0.72 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.21 U	0.19 U	1.9 U	0.22	0.0439 J
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.82 U	0.73 U	7.6 U	0.83 U	0.72 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.42 U	0.37 U	3.9 U	0.42 U	0.36 U
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.82 U	0.73 U	7.6 U	0.83 UJ	0.72 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.82 U	0.73 U	7.6 U	0.83 U	0.72 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.82 U	0.73 U	7.6 U	0.83 U	0.72 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.82 UJ	0.73 U	7.6 U	0.83 U	0.72 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.82 U	0.73 U	7.6 U	0.83 U	0.72 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.82 U	0.73 U	7.6 U	0.83 U	0.72 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.82 U	0.73 U	7.6 U	0.83 U	0.72 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.21 U	0.19 U	2.31	0.21 U	0.18 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.21 U	0.19 U	1.9 UJ	0.21 UJ	0.18 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.21 U	0.19 U	1.9 U	0.0823 J	0.0293 J
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.21 U	0.19 U	1.9 U	0.21 U	0.18 UJ
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 UJ	0.085 J
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.0797 J
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.0858 J
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.0732 J
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.041 U	0.036 U	0.38 UJ	0.041 UJ	0.035 UJ
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 UJ	0.18 UJ
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 UJ	0.18 U
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 UJ	0.21 UJ	0.18 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.21 U	0.19 U	1.9 U	0.22 J	0.105 J
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 UJ
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.025 J
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.0314 J
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 UJ

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-08 8 - 10 05/11/01	RFI-12-08 16 - 18 05/11/01	RFI-12-10 4 - 6 05/25/01	RFI-12-10 6 - 8 05/25/01	RFI-12-11D 1.1 - 3.1 06/05/01
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 UJ
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.21 U	0.0386 J	2.5	0.21 U	0.16 J
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.21 U	0.19 U	1.9 J	0.112 J	0.18 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.0825 J
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.21 U	0.19 U	2.53	0.0455 J	0.04 J
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.082 U	0.073 U	0.76 U	0.083 U	0.072 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 UJ
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.82 U	0.73 U	7.6 U	0.83 U	0.72 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.21 U	0.19 U	5.57	0.606	0.159 J
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.21 U	0.19 U	1.9 U	0.21 U	0.18 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.21 U	0.19 U	4.26	0.34 J	0.1615 J
PCB												
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.043 U	0.038 U	0.04 U	0.043 U	0.038 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.043 U	0.038 U	0.04 U	0.043 U	0.038 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.043 U	0.038 U	0.04 U	0.043 U	0.038 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.043 U	0.038 U	0.04 U	0.043 U	0.038 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.043 U	0.038 U	0.04 U	0.043 U	0.038 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.043 U	0.038 U	0.04 U	0.043 U	0.038 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.043 U	0.038 U	0.04 U	0.043 U	0.038 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.043 U	0.038 U	0.04 U	0.043 U	0.038 U
Inorganic												
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.38 U	0.29 U	0.4 U	0.38 U	0.37 J
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	**22 J (SDBL (2013))**	4.2 J	3.3 J	4.7 J	3.7
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	**120 J (SDBL (2013))**	27 J	32 J	**110 J (SDBL (2013))**	25
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.93 J	0.24 J	0.19 J	0.79 J	0.43
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.17 J	0.087 J	0.19 J	0.095 J	0.64
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	**22 J (SDBL (2013))**	8.9 J	15	**27 (SDBL (2013))**	**73 (SDBL (2013))**
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	**15 J (SDBL (2013))**	4.4 J	3.7 J	**9.8 J (SDBL (2013))**	3.4
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	21 J	12 J	12 J	13 J	**420 (SDBL (2013))**
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.018 J	0.024 J	0.011 J	0.2 U	0.033 J
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	21 J	6.2 J	7 J	12 J	**460 (SDBL (2013))**
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	**620 (SDBL (2013))**	240	280 J	210 J	**1,900 J (NPSIC (2013),SDBL (2013))**
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.0299 J	0.073 U	0.078 U	0.0289 J	0.0293 J
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	**32 (SDBL (2013))**	11	17 J	**27 J (SDBL (2013))**	**34 (SDBL (2013))**
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	**1.9 U**	**0.51 J (SDBL (2013))**	**1.6 U**	**1.5 U**	**1.7 U**
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.11 J	0.084 J	0.22 J	0.11 J	0.14 J
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.14 J	0.079 J	0.25 U	0.2 J	0.27 U
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	41 J	14 J	20 J	34 J	13
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	**60 J (SDBL (2013))**	30 J	24 J	**52 J (SDBL (2013))**	**140 (SDBL (2013))**
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	813,000	915,000	878,000	805,000	932,000

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-11D 5.1 - 7.1 06/05/01	RFI-12-14 7 - 9 06/07/01	RFI-12-14 9 - 11 06/07/01	RFI-12-15 1 - 3 06/08/01	RFI-12-16 1 - 3 09/10/01	RFI-12-16 6 - 8 09/10/01	RFI-12-16 8 - 10 09/10/01
VOC														
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.042 U	0.037 U	0.036 U	0.04 U	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.083 U	0.075 U	0.073 U	0.08 U	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.18 U	0.16 U	0.16 U	0.17 U	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.042 U	0.037 U	0.036 U	0.04 U	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.042 U	0.037 U	0.036 U	0.04 U	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.042 U	0.037 U	0.036 U	0.04 U	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.18 U	0.16 UJ	0.16 UJ	0.17 U	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.18 U	0.16 UJ	0.16 UJ	0.17 U	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.18 U	0.16 U	0.16 U	0.17 U	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.083 U	0.075 U	0.073 U	0.08 U	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.042 U	0.037 U	0.036 U	0.04 U	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.042 U	0.037 U	0.036 U	0.04 U	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.083 U	0.075 U	0.073 U	0.08 U	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.083 U	0.075 U	0.073 U	0.08 U	NA	NA	NA
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.3 U	0.27 UJ	0.26 UJ	0.28 U	NA	NA	NA
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.3 U	0.27 U	0.26 U	0.28 U	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.3 U	0.27 U	0.26 U	0.28 U	NA	NA	NA
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.3 U	0.27 UJ	0.26 U	0.28 U	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.042 U	0.037 U	0.036 U	0.04 U	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.083 U	0.075 U	0.073 U	0.08 U	NA	NA	NA
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.083 U	0.075 U	0.073 U	0.08 U	NA	NA	NA
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.18 U	0.16 U	0.16 U	0.17 U	NA	NA	NA
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.18 U	0.16 U	0.16 U	0.17 U	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.042 U	0.037 U	0.036 U	0.04 U	NA	NA	NA
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.042 U	0.037 U	0.036 U	0.04 U	NA	NA	NA
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.18 U	0.16 U	0.16 U	0.17 U	NA	NA	NA
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.042 U	0.037 U	0.036 U	0.04 U	NA	NA	NA
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.18 U	0.16 U	0.16 U	0.17 U	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.042 U	0.037 U	0.036 U	0.04 U	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.042 U	0.037 U	0.036 U	0.04 U	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.16 U	0.16 U	0.17 U	NA	NA	NA
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.083 U	0.075 U	0.073 U	0.08 U	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.083 U	0.075 U	0.073 U	0.08 U	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.042 U	0.037 U	0.036 U	0.04 U	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.18 U	0.16 U	0.16 U	0.17 U	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.072 J	0.075 U	0.073 U	0.08 U	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.16 UJ	0.16 UJ	0.39 J	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.3 U	0.27 U	0.26 U	0.28 U	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.15 J	0.16 U	0.16 U	0.028 J	NA	NA	NA
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.18 U	0.14 J	0.15 J	0.17 U	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.04 J	0.037 U	0.036 U	0.04 U	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.042 U	0.037 U	0.036 U	0.04 U	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.042 U	0.037 U	0.036 U	0.04 U	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.039 J	0.037 U	0.036 U	0.04 U	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.042 U	0.037 U	0.036 U	0.04 U	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.042 U	0.037 U	0.036 U	0.04 U	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.042 U	0.037 U	0.036 U	0.04 U	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.083 U	0.075 U	0.073 U	0.08 U	NA	NA	NA
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.042 U	0.037 U	0.036 U	0.04 U	NA	NA	NA

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-11D 5.1 - 7.1 06/05/01	RFI-12-14 7 - 9 06/07/01	RFI-12-14 9 - 11 06/07/01	RFI-12-15 1 - 3 06/08/01	RFI-12-16 1 - 3 09/10/01	RFI-12-16 6 - 8 09/10/01	RFI-12-16 8 - 10 09/10/01
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.04 J	0.037 U	0.036 U	0.04 U	NA	NA	NA
SVOC														
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.2 UJ	0.18 UJ	0.17 UJ	0.19 U	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.71 U	0.69 U	0.75 U	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.79 U	0.71 U	0.69 U	0.75 U	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.156 J	0.0273 J	0.17 U	0.2	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.71 U	0.69 U	0.75 U	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.4 U	0.36 U	0.35 U	0.38 U	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.79 U	0.71 U	0.69 U	0.75 U	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.71 U	0.69 U	0.75 U	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.79 U	0.71 U	0.69 U	0.75 U	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.71 U	0.69 U	0.75 U	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.71 U	0.69 U	0.75 U	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.71 U	0.69 U	0.75 U	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.71 U	0.69 U	0.75 U	NA	NA	NA
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.0304 J	0.18 U	0.17 U	0.19 U	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.0578 J	0.18 U	0.0343 J	0.19 U	NA	NA	NA
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.2 UJ	0.18 UJ	0.17 UJ	0.19 U	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.1132 J	0.0228 J	0.101 J	0.0799 J	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.0917 J	0.0186 J	0.0935 J	0.95 U	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.0804 J	0.0221 J	0.0853 J	0.95 U	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.2 UJ	0.18 UJ	0.0524 J	0.95 U	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.0828 J	0.18 UJ	0.0966 J	0.95 U	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.039 UJ	0.035 UJ	0.034 U	0.037 U	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.2 UJ	0.18 UJ	0.53 U	0.264	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.17 U	12.7 D	NA	NA	NA
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.1327 J	0.0312 J	0.111 J	0.103 J	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.2 UJ	0.18 UJ	0.17 U	0.95 U	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.0734 J	0.18 U	0.17 U	0.0459 J	NA	NA	NA
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-11D 5.1 - 7.1 06/05/01	RFI-12-14 7 - 9 06/07/01	RFI-12-14 9 - 11 06/07/01	RFI-12-15 1 - 3 06/08/01	RFI-12-16 1 - 3 09/10/01	RFI-12-16 6 - 8 09/10/01	RFI-12-16 8 - 10 09/10/01
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.2 UJ	0.18 UJ	0.17 U	0.95 U	NA	NA	NA
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.2436 J	0.0445 J	0.207	0.218	NA	NA	NA
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.2 UJ	0.18 UJ	0.0442 J	0.95 U	NA	NA	NA
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.1257 J	0.0224 J	0.17 UJ	0.136 J	NA	NA	NA
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.079 U	0.071 U	0.069 U	0.075 U	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.2 UJ	0.18 UJ	0.17 UJ	0.19 U	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.79 U	0.71 U	0.69 U	0.75 U	NA	NA	NA
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.3548 J	0.0512 J	0.157 J	0.271	NA	NA	NA
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.17 U	0.19 U	NA	NA	NA
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.2436 J	0.0396 J	0.187	0.199	NA	NA	NA
PCB														
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.037 U	0.036 U	R	NA	NA	NA
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.037 U	0.036 U	R	NA	NA	NA
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.037 U	0.036 U	R	NA	NA	NA
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.037 U	0.036 U	R	NA	NA	NA
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.037 U	0.036 U	R	NA	NA	NA
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.037 U	0.036 U	R	NA	NA	NA
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.037 U	0.036 U	R	NA	NA	NA
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.041 U	0.037 U	0.036 U	R	NA	NA	NA
Inorganic														
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	R	R	R	0.45 UJ	NA	NA	NA
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	**7.1 (SDBL (2013))**	1.6	0.69	3.2	NA	NA	NA
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	29	6.6	5.8	18 J	NA	NA	NA
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.19 J	0.1 J	0.16 U	0.18 J	NA	NA	NA
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.34	0.064	0.033	0.076	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	**91 (SDBL (2013))**	**23 (SDBL (2013))**	8.1	18	NA	NA	NA
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	6.8	1.5	0.8	2.5	NA	NA	NA
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	**260 (SDBL (2013))**	23	8.4	13	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.017 J	0.039 J	0.03 J	0.009 J	NA	NA	NA
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**210 (SDBL (2013))**	3.2	8.2	5.3	19 [20]	**100 (SDBL (2013))**	**96 (SDBL (2013))**
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	**940 J (SDBL (2013))**	150 J	84 J	260 J	NA	NA	NA
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.078 U	0.072 U	0.07 U	0.076 U	NA	NA	NA
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	**92 (SDBL (2013))**	11	4.6	13	NA	NA	NA
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	**1.8 U**	**1.4 U**	**1.4 U**	**0.82 U**	NA	NA	NA
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.11 J	0.099 J	0.12 J	0.067 J	NA	NA	NA
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.28 U	0.23 U	0.23 U	0.29 U	NA	NA	NA
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	15	3.7	1.8	9.9	NA	NA	NA
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	**66 (SDBL (2013))**	5.4	8.4	17	NA	NA	NA
Miscellaneous														
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	853,000	950,000	972,000	892,000	948,000 [945,000]	871,000	896,000

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-17 1 - 3 09/07/01	RFI-12-17 6 - 8 09/10/01	RFI-12-17 8 - 10 09/10/01	RFI-12-18 1 - 3 09/10/01	RFI-12-18 6 - 8 09/10/01	RFI-12-18 8 - 10 09/10/01	RFI-12-21 1 - 3 11/28/01	RFI-12-21 9 - 11 11/28/01
VOC															
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	0.039 U	0.045 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	0.079 U	0.09 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	0.17 U	0.19 U
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	0.039 U	0.045 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	0.039 U	0.045 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	0.039 U	0.045 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	0.17 U	0.19 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	0.17 U	0.19 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	0.17 U	0.19 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	0.079 U	0.09 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	0.039 U	0.045 U
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	0.039 U	0.045 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	0.079 U	0.09 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	0.079 U	0.09 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	0.28 U	0.32 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	0.28 U	0.32 U
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	0.28 U	0.32 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	0.28 UJ	0.32 UJ
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	0.039 U	0.045 U
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	0.079 U	0.09 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	0.079 U	0.09 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	0.17 U	0.19 U
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	0.17 U	0.19 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	0.039 U	0.045 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	0.039 U	0.045 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	0.17 U	0.19 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	0.039 U	0.045 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	0.17 U	0.19 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	0.039 U	0.045 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.039 U	0.045 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.17 U	0.19 U
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	0.079 U	0.09 U
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	0.94 J	0.09 U
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	0.39	0.045 U
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	0.055 J	0.19 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.079 U	0.09 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.052 J	0.043 J
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	0.28 U	0.32 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.17 U	0.19 U
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	0.17 U	0.19 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.039 U	0.045 U
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	0.67	0.045 U
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	0.039 U	0.045 U
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	0.039 U	0.045 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	0.039 U	0.045 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.039 U	0.045 U
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	0.039 U	0.045 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	0.079 U	0.09 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	0.039 U	0.045 U

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-17 1 - 3 09/07/01	RFI-12-17 6 - 8 09/10/01	RFI-12-17 8 - 10 09/10/01	RFI-12-18 1 - 3 09/10/01	RFI-12-18 6 - 8 09/10/01	RFI-12-18 8 - 10 09/10/01	RFI-12-21 1 - 3 11/28/01	RFI-12-21 9 - 11 11/28/01
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	0.039 U	0.045 U
SVOC															
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	R	0.22 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	R	0.22 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	R	0.22 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	R	0.22 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	R	0.86 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	0.76 U	0.86 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	R	0.22 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	R	0.22 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.76 U	0.86 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	R	0.22 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	R	0.44 U
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	0.76 U	0.86 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.76 U	0.86 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	R	0.86 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	R	0.22 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.76 U	0.86 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.76 U	0.86 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.76 U	0.86 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	R	0.86 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.19 U	0.22 UJ
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	0.038 U	0.042 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-17 1 - 3 09/07/01	RFI-12-17 6 - 8 09/10/01	RFI-12-17 8 - 10 09/10/01	RFI-12-18 1 - 3 09/10/01	RFI-12-18 6 - 8 09/10/01	RFI-12-18 8 - 10 09/10/01	RFI-12-21 1 - 3 11/28/01	RFI-12-21 9 - 11 11/28/01
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	R	0.22 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	0.076 U	0.086 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	R	0.86 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	R	0.22 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	0.19 U	0.22 U
PCB															
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.04 U	0.045 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.04 U	0.045 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.04 U	0.045 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.04 U	0.045 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.04 U	0.045 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.04 U	0.045 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.04 U	0.045 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	NA	NA	NA	NA	NA	NA	0.04 U	0.045 U
Inorganic															
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	R	R
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	3.2	4.4
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	20 J	**90 J (SDBL (2013))**
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	0.13 J	0.76 J
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	0.078	0.11
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	14 J	**25 J (SDBL (2013))**
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	2.6	**13 (SDBL (2013))**
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	16	18
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	4.7	14	13	6	20	11	**34 (SDBL (2013))**	12
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	160	420
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	0.0246 J	0.0241 J
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	9.3 J	**34 J (SDBL (2013))**
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	0.074 UJ	0.13 J
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	0.057 J	0.12 J
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	0.052 J	0.22 J
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	12	31
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	28 J	**52 J (SDBL (2013))**
Miscellaneous															
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	934,000	690,000	825,000	972,000	904,000	843,000	876,000	778,000

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-22 1.1 - 3.1 01/30/02	RFI-12-22 9.1 - 11.1 01/30/02	RFI-12-22 13.1 - 15.1 01/30/02	RFI-12-23 0.9 - 1.4 02/19/03	RFI-12-23 2.5 - 4.5 02/19/03	RFI-12-23 8.5 - 10.5 02/19/03
VOC													
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.037 U	0.044 U	0.044 U	0.039 U	0.039 U	0.043 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.073 U	0.088 U	0.089 U	0.078 U	0.078 U	0.086 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.16 U	0.19 U	0.19 U	0.17 U	0.17 U	0.18 U
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.037 U	0.044 U	0.044 U	0.039 U	0.039 U	0.043 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.037 U	0.044 U	0.044 U	0.039 UJ	0.039 UJ	0.043 UJ
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.037 U	0.044 U	0.044 U	0.039 U	0.039 U	0.043 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.16 U	0.19 U	0.19 U	0.17 U	0.17 U	0.18 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.16 UJ	0.19 UJ	0.19 UJ	0.17 U	0.17 U	0.18 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.16 U	0.19 U	0.19 U	0.17 U	0.17 U	0.18 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.073 U	0.088 U	0.089 U	0.078 U	0.078 U	0.086 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.037 U	0.044 U	0.044 U	0.039 U	0.039 U	0.043 U
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.037 U	0.044 U	0.044 U	0.039 U	0.039 U	0.043 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.073 U	0.088 U	0.089 U	0.078 U	0.078 U	0.086 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.073 U	0.088 U	0.089 U	0.078 U	0.078 U	0.086 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.26 U	0.31 U	0.32 U	0.33 UJ	0.34 UJ	0.37 UJ
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.26 U	0.31 U	0.32 U	0.078 U	0.078 U	0.086 U
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.26 U	0.31 U	0.32 U	1.7 U	1.7 U	1.8 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.26 U	0.31 U	0.32 U	0.044 J	0.056 J	0.071 J
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.037 U	0.044 U	0.044 U	0.039 U	0.039 U	0.043 U
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.073 U	0.088 U	0.089 U	0.078 U	0.078 U	0.086 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.073 U	0.088 U	0.089 U	0.078 U	0.078 U	0.086 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.16 UJ	0.19 UJ	0.19 UJ	0.17 UJ	0.17 UJ	0.18 UJ
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.16 U	0.19 U	0.19 U	0.17 U	0.17 U	0.18 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.037 U	0.044 U	0.044 U	0.039 U	0.039 U	0.043 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.037 U	0.044 U	0.044 U	0.039 U	0.039 U	0.043 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.16 U	0.19 U	0.19 U	0.17 U	0.17 U	0.18 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.037 U	0.044 U	0.044 U	0.039 U	0.039 U	0.043 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.028 J	0.19 U	0.19 U	0.17 U	0.17 U	0.18 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.037 U	0.044 U	0.044 U	0.039 U	0.039 U	0.043 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.037 U	0.044 U	0.044 U	0.039 U	0.039 U	0.043 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.16 U	0.19 U	0.19 U	0.17 U	0.17 U	0.18 U
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.073 U	0.088 U	0.089 U	0.078 U	0.078 U	0.086 U
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.073 U	0.088 U	0.089 U	0.078 U	0.078 U	0.086 U
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.037 U	0.044 U	0.044 U	0.039 U	0.039 U	0.043 U
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.16 U	0.19 U	0.19 U	0.17 U	0.17 U	0.18 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.073 U	0.088 U	0.089 U	0.078 U	0.078 U	0.086 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.16 J	0.039 J	0.19 U	0.17 U	0.17 U	0.18 U
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.26 U	0.31 U	0.32 U	0.17 U	0.17 U	0.18 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.16 U	0.19 U	0.19 U	0.17 U	0.17 U	0.18 U
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.16 U	0.19 U	0.033 J	0.17 U	0.048 J	0.05 J
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.037 U	0.044 U	0.044 U	0.039 U	0.039 U	0.043 U
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.037 U	0.044 U	0.044 U	0.039 U	0.039 U	0.043 U
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.037 U	0.044 U	0.044 U	0.039 U	0.039 U	0.043 U
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.037 U	0.044 U	0.044 U	0.078 U	0.078 U	0.086 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.037 U	0.044 U	0.044 U	0.039 U	0.039 U	0.043 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.037 U	0.044 U	0.044 U	0.039 U	0.039 U	0.043 U
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.037 U	0.044 U	0.044 U	0.039 U	0.039 U	0.043 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.073 U	0.088 U	0.089 U	0.078 U	0.078 U	0.086 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.037 U	0.044 U	0.044 U	0.078 U	0.078 U	0.086 U

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-22 1.1 - 3.1 01/30/02	RFI-12-22 9.1 - 11.1 01/30/02	RFI-12-22 13.1 - 15.1 01/30/02	RFI-12-23 0.9 - 1.4 02/19/03	RFI-12-23 2.5 - 4.5 02/19/03	RFI-12-23 8.5 - 10.5 02/19/03
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.037 U	0.044 U	0.044 U	0.039 U	0.039 U	0.043 U
SVOC													
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.71 U	0.84 U	0.85 U	0.77 U	0.76 U	0.84 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.71 U	0.84 U	0.85 U	0.77 U	0.76 U	0.84 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.18 U	0.21 U	0.22 U	0.124 J	0.19 U	0.21 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.71 U	0.84 U	0.85 U	0.77 U	0.76 U	0.84 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.36 UJ	0.43 UJ	0.43 UJ	0.39 UJ	0.39 UJ	0.43 UJ
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.71 U	0.84 U	0.85 U	0.77 U	0.76 U	0.84 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.71 U	0.84 U	0.85 U	0.77 U	0.76 U	0.84 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.71 U	0.84 U	0.85 U	0.77 U	0.76 U	0.84 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.71 U	0.84 U	0.85 U	0.77 U	0.76 U	0.84 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.71 U	0.84 U	0.85 U	0.77 U	0.76 U	0.84 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.71 U	0.84 U	0.85 U	0.77 U	0.76 U	0.84 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.71 U	0.84 U	0.85 U	0.77 U	0.76 U	0.84 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.21 U	0.22 U	0.19 UJ	0.19 UJ	0.21 UJ
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.0526 J	0.21 U	0.22 U	0.19 U	0.118 J	0.21 U
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.0351 J	0.21 U	0.22 U	0.19 U	0.131 J	0.21 U
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.0404 J	0.21 U	0.22 U	0.19 U	0.216 J	0.21 U
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.0687 J	0.21 U
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.125 J	0.21 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.035 U	0.041 U	0.042 U	0.038 U	0.038 U	0.042 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.18 U	0.21 U	0.22 U	0.0723 J	0.19 UJ	0.21 UJ
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.0926 J	0.21 U	0.22 U	0.19 U	0.19 UJ	0.21 UJ
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.0582 J	0.21 U	0.22 U	0.19 U	0.129 J	0.21 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-22 1.1 - 3.1 01/30/02	RFI-12-22 9.1 - 11.1 01/30/02	RFI-12-22 13.1 - 15.1 01/30/02	RFI-12-23 0.9 - 1.4 02/19/03	RFI-12-23 2.5 - 4.5 02/19/03	RFI-12-23 8.5 - 10.5 02/19/03
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.168 J	0.21 U	0.22 U	0.19 U	0.251	0.21 U
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.25
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.0712 J	0.21 U	0.22 U	0.441	0.0999 J	0.21 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.071 U	0.084 U	0.085 U	0.077 U	0.076 U	0.084 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.71 U	0.84 U	0.85 U	0.77 U	0.76 U	0.84 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.173 J	0.21 U	0.22 U	0.19 U	0.167 J	0.21 U
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.21 U	0.22 U	0.19 U	0.19 U	0.21 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.143 J	0.21 U	0.22 U	0.19 U	0.245	0.139 J
PCB													
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.037 U	0.044 U	0.044 U	0.04 U	0.04 U	0.044 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.037 U	0.044 U	0.044 U	0.04 U	0.04 U	0.044 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.037 U	0.044 U	0.044 U	0.04 U	0.04 U	0.044 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.037 U	0.044 U	0.044 U	0.04 U	0.04 U	0.044 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.037 U	0.044 U	0.044 U	0.04 U	0.04 U	0.044 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.037 U	0.044 U	0.044 U	0.04 U	0.04 U	0.044 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.037 U	0.044 U	0.044 U	0.04 U	0.04 U	0.044 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.037 U	0.044 U	0.044 U	0.04 U	0.04 U	0.044 U
Inorganic													
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.087 J	0.15 J	0.24 J	0.093 J	0.15 J	0.19 UJ
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	4.8 J	**7.3 J (SDBL (2013))**	4.1 J	4 J	3.8 J	**9.9 J (SDBL (2013))**
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	53 J	**77 J (SDBL (2013))**	**86 J (SDBL (2013))**	50 J	44 J	**100 J (SDBL (2013))**
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	1.9 J	3.6 J	6.9 J	0.25 J	0.21 J	0.49 J
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.48 J	0.29 J	0.39 J	0.43	**1.6 (SDBL (2013))**	0.11
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	17 J	18 J	**21 J (SDBL (2013))**	13 J	13 J	**25 J (SDBL (2013))**
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	4.7	6.1	6.5	3.9 J	3.6 J	**10 J (SDBL (2013))**
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	14 J	12 J	9.6 J	28 J	**150 J (SDBL (2013))**	14 J
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.053 J	0.3 U	0.3 U	0.00002 UJ	**1 UJ**	**1 UJ**
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**72 J (SDBL (2013))**	**25 J (SDBL (2013))**	7.3 J	**28 J (SDBL (2013))**	**620 J (SDBL (2013))**	13 J
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	270 J	320 J	**1,100 J (SDBL (2013))**	170	180	300
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.07 U	0.086 U	0.089 U	0.069 J	0.0649 J	0.0109 J
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	11 J	17 J	18 J	12 J	**21 J (SDBL (2013))**	**26 J (SDBL (2013))**
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	0.28 J	0.17 J	0.2 J	**0.93 (SDBL (2013))**	0.19	0.077 U
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.14 J	0.19 J	0.26 J	0.083 J	0.1 J	0.087 J
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.16 J	0.24 J	0.29 J	0.11 J	0.074 J	0.24
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	19	27	33	16 J	15 J	40 J
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	**81 (SDBL (2013))**	43	29	43 J	**320 J (SDBL (2013))**	44 J
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	949,000	799,000	788,000	875,000	877,000	794,000

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-23 10.5 - 12.5 02/19/03	RFI-12-23 12.5 - 14.5 02/19/03	RFI-12-24 1 - 3 03/28/03	RFI-12-24 5 - 7 03/28/03	RFI-12-25 1 - 3 03/28/03	RFI-12-25 7 - 9 04/03/03	RFI-12-25 11 - 13 04/03/03
VOC														
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.04 U	0.043 U	0.035 U	0.036 U	0.036 U	0.039 U	0.042 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.081 U	0.086 U	0.071 U	0.072 U	0.072 U	0.079 U	0.084 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.17 U	0.18 U	0.15 U	0.15 U	0.15 U	0.17 U	0.18 U
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.04 U	0.043 U	0.035 U	0.036 U	0.036 U	0.039 U	0.042 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.04 U	0.043 UJ	0.035 U	0.036 U	0.036 U	0.039 U	0.042 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.04 U	0.043 U	0.035 U	0.036 U	0.036 U	0.039 U	0.042 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.17 U	0.18 U	0.15 U	0.15 U	0.15 U	0.17 U	0.18 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.17 U	0.18 U	0.15 U	0.15 U	0.15 U	0.17 U	0.18 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.17 U	0.18 U	0.15 U	0.15 U	0.15 U	0.17 U	0.18 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.081 U	0.086 U	0.071 U	0.072 U	0.072 U	0.079 U	0.084 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.04 U	0.043 U	0.035 U	0.036 U	0.036 U	0.039 U	0.042 U
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.04 U	0.043 U	0.035 U	0.036 U	0.036 U	0.039 U	0.042 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.081 U	0.086 U	0.071 U	0.072 U	0.072 U	0.079 U	0.084 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.081 U	0.086 U	0.071 U	0.072 U	0.072 U	0.079 U	0.084 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.35 U	0.37 UJ	0.3 U	0.31 U	0.31 U	0.34 UJ	0.36 UJ
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.081 U	0.086 U	0.071 U	0.072 U	0.072 U	0.079 U	0.084 U
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	1.7 U	1.8 U	1.5 U	1.5 U	1.5 U	1.7 U	1.8 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.086 J	0.075 J	0.3 U	0.31 U	0.31 U	0.094 J	0.36 U
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.04 U	0.043 U	0.035 U	0.036 U	0.036 U	0.039 U	0.042 U
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.081 U	0.086 U	0.071 U	0.072 U	0.072 U	0.079 U	0.084 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.081 U	0.086 U	0.071 U	0.072 U	0.072 U	0.079 U	0.084 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.17 U	0.18 UJ	0.15 U	0.15 U	0.15 U	0.17 UJ	0.18 UJ
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.17 U	0.18 U	0.15 U	0.15 U	0.15 U	0.17 UJ	0.18 UJ
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.04 U	0.043 U	0.035 U	0.036 U	0.036 U	0.039 U	0.042 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.04 U	0.043 U	0.035 U	0.036 U	0.036 U	0.039 U	0.042 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.17 U	0.18 U	0.15 U	0.15 U	0.15 U	0.17 U	0.18 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.04 U	0.043 U	0.035 U	0.036 U	0.036 U	0.039 U	0.042 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.17 U	0.18 U	0.15 U	0.15 U	0.15 U	0.17 U	0.18 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.04 U	0.043 U	0.035 U	0.036 U	0.036 U	0.039 U	0.042 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.04 U	0.043 U	0.035 U	0.036 U	0.036 U	0.039 U	0.042 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.17 U	0.18 U	0.15 U	0.15 U	0.15 U	0.17 U	0.18 U
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.081 U	0.086 U	0.071 U	0.072 U	0.072 U	0.079 U	0.084 U
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.081 U	0.086 U	0.041 J	0.072 U	0.072 U	0.079 U	0.084 U
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.04 U	0.043 U	0.035 U	0.036 U	0.036 U	0.039 U	0.042 U
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.17 U	0.18 U	0.15 U	0.15 U	0.15 U	0.17 U	0.18 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.081 U	0.086 U	0.071 U	0.072 U	0.072 U	0.079 U	0.084 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.17 U	0.18 U	0.095 J	0.15 U	0.15 U	0.27 J	0.18 UJ
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.17 U	0.18 U	0.15 U	0.15 U	0.15 U	0.17 U	0.18 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.17 U	0.18 U	0.15 U	0.15 U	0.15 U	0.17 U	0.18 U
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.044 J	0.049 J	0.15 U	0.15 U	0.15 U	0.09 J	0.094 J
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.04 U	0.043 U	0.035 U	0.036 U	0.036 U	0.039 U	0.042 U
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.04 U	0.043 U	0.035 U	0.036 U	0.036 U	0.039 U	0.042 U
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.04 U	0.043 U	0.035 U	0.036 U	0.036 U	0.039 U	0.042 U
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.081 U	0.086 U	0.071 U	0.072 U	0.072 U	0.079 U	0.084 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.04 U	0.043 U	0.035 U	0.036 U	0.036 U	0.039 U	0.042 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.04 U	0.043 U	0.035 U	0.036 U	0.036 U	0.039 U	0.042 U
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.04 U	0.043 U	0.035 U	0.036 U	0.036 U	0.039 U	0.042 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.081 U	0.086 U	0.071 U	0.072 U	0.072 U	0.079 U	0.084 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.081 U	0.086 U	0.071 U	0.072 U	0.072 U	0.079 U	0.084 U

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-23 10.5 - 12.5 02/19/03	RFI-12-23 12.5 - 14.5 02/19/03	RFI-12-24 1 - 3 03/28/03	RFI-12-24 5 - 7 03/28/03	RFI-12-25 1 - 3 03/28/03	RFI-12-25 7 - 9 04/03/03	RFI-12-25 11 - 13 04/03/03
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.04 U	0.043 U	0.035 U	0.036 U	0.036 U	0.039 U	0.042 U
SVOC														
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.78 U	0.85 U	0.69 U	0.7 U	0.69 U	3.9 U	0.83 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.78 U	0.85 U	0.69 U	0.7 U	0.69 U	3.9 U	0.83 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	3.52	0.144 J	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.78 U	0.85 U	0.69 U	0.7 U	0.69 U	3.9 U	0.83 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.39 UJ	0.43 UJ	0.35 UJ	0.35 UJ	0.35 UJ	2 UJ	0.42 UJ
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.78 U	0.85 U	0.69 U	0.7 U	0.69 U	3.9 U	0.83 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.78 U	0.85 U	0.69 U	0.7 U	0.69 U	3.9 U	0.83 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.78 U	0.85 U	0.69 U	0.7 U	0.69 U	3.9 U	0.83 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.78 U	0.85 U	0.69 UJ	0.7 UJ	0.69 UJ	3.9 U	0.83 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.78 U	0.85 U	0.69 U	0.7 U	0.69 U	3.9 U	0.83 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.78 U	0.85 U	0.69 U	0.7 U	0.69 U	3.9 U	0.83 UJ
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.78 U	0.85 U	0.69 U	0.7 U	0.69 U	3.9 U	0.83 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.295	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.22 U	0.17 UJ	0.18 UJ	0.17 UJ	0.99 U	0.21 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.2 UJ	0.22 UJ	0.17 UJ	0.18 UJ	0.17 UJ	0.99 UJ	0.21 U
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.0849 J	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.2 UJ	0.22 U	0.17 U	0.18 U	0.17 U	0.99 UJ	0.21 UJ
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.2 UJ	0.22 U	0.17 U	0.18 U	0.17 U	0.99 UJ	0.21 UJ
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.2 UJ	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.2 UJ	0.22 U	0.17 U	0.18 U	0.17 U	0.99 UJ	0.21 UJ
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.038 U	0.042 U	0.034 U	0.034 U	0.034 U	0.19 U	0.041 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.0849 J	0.22 U	0.11 J	0.18 U	0.17 U	0.99 U	0.21 U
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.2 UJ	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.173 J	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.2 UJ	0.22 U	0.17 UJ	0.18 UJ	0.17 UJ	0.99 U	0.21 U
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-23 10.5 - 12.5 02/19/03	RFI-12-23 12.5 - 14.5 02/19/03	RFI-12-24 1 - 3 03/28/03	RFI-12-24 5 - 7 03/28/03	RFI-12-25 1 - 3 03/28/03	RFI-12-25 7 - 9 04/03/03	RFI-12-25 11 - 13 04/03/03
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.2 UJ	0.22 U	0.17 U	0.18 U	0.17 U	0.99 UJ	0.21 UJ
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.149 J	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.812	0.0917 J	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.2 UJ	0.22 U	0.17 UJ	0.18 UJ	0.17 UJ	0.99 U	0.21 U
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.43	0.0854 J	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.078 U	0.085 U	0.069 U	0.07 U	0.069 U	0.39 U	0.083 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.78 U	0.85 U	0.69 U	0.7 U	0.69 U	3.9 U	0.83 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	1.97	0.157 J	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.593	0.22 U	0.17 U	0.18 U	0.17 U	0.99 U	0.21 U
PCB														
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.044 U	0.036 U	0.036 U	0.036 U	0.041 U	0.043 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.044 U	0.036 U	0.036 U	0.036 U	0.041 U	0.043 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.044 U	0.036 U	0.036 U	0.036 U	0.041 U	0.043 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.044 U	0.036 U	0.036 U	0.036 U	0.041 U	0.043 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.044 U	0.036 U	0.036 U	0.036 U	0.041 U	0.043 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.044 U	0.036 U	0.036 U	0.036 U	0.041 U	0.043 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.044 U	0.036 U	0.036 U	0.036 U	0.041 U	0.043 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.041 U	0.044 U	0.036 U	0.036 U	0.036 U	0.041 U	0.043 U
Inorganic														
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.17 UJ	0.19 UJ	0.031 J	0.03 J	0.041 J	0.019 J	0.17 UJ
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	4.7 J	3.8 J	3	2.6	3.8	4.2 J	5.3 J
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	**100 J (SDBL (2013))**	**97 J (SDBL (2013))**	12	6.7	13	44	**110 (SDBL (2013))**
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.58 J	0.62 J	0.085 J	0.075 J	0.091 J	0.25 J	0.43 J
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.11	0.11	0.087	0.086	0.099	0.24	0.19
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	**26 J (SDBL (2013))**	**29 J (SDBL (2013))**	5.9	4.9	7.3	11	**22 (SDBL (2013))**
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	**7.9 J (SDBL (2013))**	**9 J (SDBL (2013))**	1.9	1.7	2.8	4.1 J	**14 J (SDBL (2013))**
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	18 J	15 J	4.6 J	4 J	6.3 J	9.9 J	10 J
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.2 UJ	0.2 UJ	0.2 U	0.24	0.34	0.2 U	**1.3 (SDBL (2013))**
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**39 J (SDBL (2013))**	13 J	3.5	3	3.9	15 J	8.8 J
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	290	280	110	110	170	150	290
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.0121 J	0.0128 J	0.072 UJ	0.073 UJ	0.066 UJ	0.0555 J	0.0396 J
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	**22 J (SDBL (2013))**	**26 J (SDBL (2013))**	7.4	7.2	11	12 J	**29 J (SDBL (2013))**
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	0.068 U	**0.65 J (SDBL (2013))**	0.035 J	0.066	0.15	0.12 J	0.17 J
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.1 J	0.098 J	0.039 J	0.021 J	0.027 J	0.042 J	0.1 J
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.24	0.36	0.049 J	0.04 J	0.093 J	0.11 J	0.21
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	44 J	46 J	7.4	7.5	9.9	20 J	30 J
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	47 J	**53 J (SDBL (2013))**	19 J	17 J	24 J	**66 J (SDBL (2013))**	36 J
Miscellaneous														
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	863,000	788,000	974,000	964,000	972,000	862,000	808,000

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-26 1 - 3 03/31/03	RFI-12-26 6 - 8 03/31/03	RFI-12-26 9 - 11 03/31/03	RFI-12-26 11 - 13 03/31/03	RFI-12-27 1 - 3 07/24/03	RFI-12-27 3 - 5 07/24/03
VOC													
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.035 U	0.042 U	0.043 U	0.04 U	0.037 U	0.097
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.071 U	0.084 U	0.086 U	0.081 U	0.074 U	0.078 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.15 U	0.18 U	0.18 U	0.17 U	0.16 U	0.17 U
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.035 U	0.042 U	0.043 U	0.04 U	0.037 U	0.039 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.035 U	0.042 U	0.043 U	0.04 U	0.037 U	0.039 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.035 U	0.042 U	0.043 U	0.04 U	0.037 U	0.039 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.15 U	0.18 U	0.18 U	0.17 U	0.16 U	0.17 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.15 U	0.18 U	0.18 U	0.17 U	0.16 U	0.17 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.15 U	0.18 U	0.18 U	0.17 U	0.16 U	0.17 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.071 U	0.084 U	0.086 U	0.081 U	0.074 U	0.078 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.035 U	0.042 U	0.043 U	0.04 U	0.037 U	0.039 U
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.035 U	0.042 U	0.043 U	0.04 U	0.037 U	0.039 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.071 U	0.084 U	0.086 U	0.081 U	0.074 U	0.078 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.071 U	0.084 U	0.086 U	0.081 U	0.074 U	0.078 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.3 U	0.36 U	0.37 U	0.35 U	0.32 UJ	0.33 UJ
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.071 U	0.084 U	0.086 U	0.081 U	0.074 U	0.078 U
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	1.5 U	1.8 U	1.8 U	1.7 U	1.6 U	1.7 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.3 U	0.36 U	0.37 U	0.35 U	0.32 UJ	0.17 J
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.035 U	0.042 U	0.043 U	0.04 U	0.037 U	0.039 U
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.071 U	0.084 U	0.086 U	0.081 U	0.074 U	0.078 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.071 U	0.084 U	0.086 U	0.081 U	0.074 U	0.078 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.15 U	0.18 U	0.18 U	0.17 U	0.16 U	0.17 U
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.15 U	0.18 U	0.18 U	0.17 U	0.16 UJ	0.17 UJ
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.035 U	0.042 U	0.043 U	0.04 U	0.037 U	0.039 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.035 U	0.042 U	0.043 U	0.04 U	0.037 U	0.039 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.15 U	0.18 U	0.18 U	0.17 U	0.16 U	0.17 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.035 U	0.042 U	0.043 U	0.04 U	0.037 U	0.039 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.15 U	0.18 U	0.18 U	0.17 U	0.16 U	0.17 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.035 U	0.042 U	0.043 U	0.04 U	0.037 U	0.093
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.035 U	0.042 U	0.043 U	0.04 U	0.037 U	0.039 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.15 U	0.18 U	0.18 U	0.17 U	0.16 U	0.17 U
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.071 U	0.084 U	0.086 U	0.081 U	0.074 U	0.078 U
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.071 U	0.084 U	0.086 U	0.081 U	0.074 U	0.078 U
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.035 U	0.042 U	0.043 U	0.04 U	0.037 U	0.039 U
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.15 U	0.031 J	0.18 U	0.17 U	0.16 U	0.17 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.071 U	0.084 U	0.086 U	0.081 U	0.074 U	0.032 J
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.15 U	0.048 J	0.18 U	0.17 U	0.053 J	0.18 J
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.15 U	0.18 U	0.18 U	0.17 U	0.16 U	0.17 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.15 U	0.042 J	0.18 U	0.035 J	0.16 U	0.042 J
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.15 U	0.18 U	0.18 U	0.17 U	0.037 J	0.12 J
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.035 U	0.042 U	0.043 U	0.04 U	0.037 U	0.039 U
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.035 U	0.042 U	0.043 U	0.04 U	0.037 U	0.039 U
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.035 U	0.042 U	0.043 U	0.04 U	0.037 U	0.4
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.071 U	0.084 U	0.086 U	0.081 U	0.074 U	0.078 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.035 U	0.042 U	0.043 U	0.04 U	0.037 U	0.039 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.035 U	0.042 U	0.043 U	0.04 U	0.037 U	0.039 U
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.035 U	0.042 U	0.043 U	0.04 U	0.037 U	0.056
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.071 U	0.084 U	0.086 U	0.081 U	0.074 U	0.078 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.071 U	0.084 U	0.086 U	0.081 U	0.074 U	0.078 U

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-26 1 - 3 03/31/03	RFI-12-26 6 - 8 03/31/03	RFI-12-26 9 - 11 03/31/03	RFI-12-26 11 - 13 03/31/03	RFI-12-27 1 - 3 07/24/03	RFI-12-27 3 - 5 07/24/03
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.035 U	0.042 U	0.043 U	0.04 U	0.037 U	0.039 U
SVOC													
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 UJ
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.69 U	16 U	0.85 U	0.78 U	0.72 UJ	0.74 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.69 U	16 U	0.85 U	0.78 U	0.72 U	0.74 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.18 U	1.45 J	0.21 U	0.2 U	0.18 U	0.19 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.69 U	16 U	0.85 U	0.78 U	0.72 U	0.74 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.35 UJ	8.2 UJ	0.43 UJ	0.4 UJ	0.37 UJ	0.38 UJ
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.69 U	16 UJ	0.85 UJ	0.78 UJ	0.72 U	0.74 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.69 U	16 U	0.85 U	0.78 U	0.72 U	0.74 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.69 U	16 U	0.85 U	0.78 U	0.72 U	0.74 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.69 UJ	16 UJ	0.85 UJ	0.78 UJ	0.72 U	0.74 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.69 U	16 U	0.85 U	0.78 U	0.72 U	0.74 UJ
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.69 U	16 U	0.85 U	0.78 U	0.72 U	0.74 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.69 U	16 U	0.85 U	0.78 U	0.72 U	0.74 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.105 J
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	4.1 UJ	0.21 UJ	0.2 UJ	0.18 UJ	0.19 UJ
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.18 UJ	4.1 UJ	0.21 UJ	0.2 UJ	0.18 UJ	0.19 U
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U	4.1 U	0.21 UJ	0.2 UJ	0.18 U	0.184 J
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.18 U	4.1 UJ	0.21 UJ	0.2 UJ	0.18 UJ	0.164 J
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.18 U	4.1 UJ	0.21 UJ	0.2 UJ	0.18 UJ	0.191 J
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.18 U	4.1 UJ	0.21 UJ	0.2 UJ	0.18 UJ	0.0874 J
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.18 U	4.1 UJ	0.21 UJ	0.2 UJ	0.18 UJ	0.149 J
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.034 U	0.79 U	0.042 U	0.038 U	0.036 U	0.037 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.18 U	4.1 UJ	0.21 UJ	0.2 UJ	0.19	0.0723 J
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.18 U	4.1 UJ	0.21 UJ	0.2 UJ	0.176 J	0.314
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 UJ
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.18 U	3.82 J	0.21 UJ	0.169 J	0.18 U	0.22
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	4.1 UJ	0.21 UJ	0.2 UJ	0.18 UJ	0.19 UJ
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 UJ
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-26 1 - 3 03/31/03	RFI-12-26 6 - 8 03/31/03	RFI-12-26 9 - 11 03/31/03	RFI-12-26 11 - 13 03/31/03	RFI-12-27 1 - 3 07/24/03	RFI-12-27 3 - 5 07/24/03
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.18 U	4.1 UJ	0.21 UJ	0.2 UJ	0.18 UJ	0.19 UJ
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.456
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.18 U	1.68 J	0.21 U	0.0706 J	0.18 U	0.19 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	4.1 UJ	0.21 UJ	0.2 UJ	0.18 UJ	0.0793 J
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.069 U	1.6 U	0.085 U	0.078 U	0.072 U	0.074 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.69 U	16 U	0.85 U	0.78 U	0.72 U	0.74 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.18 U	12.3	0.173 J	0.301	0.18 U	0.394
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.18 U	4.1 U	0.21 U	0.2 U	0.18 U	0.19 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.18 U	6.05 J	0.212 J	0.228 J	0.0843 J	0.669
PCB													
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.13 U	0.044 U	0.041 U	0.038 U	0.039 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.13 U	0.044 U	0.041 U	0.038 U	0.039 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.13 U	0.044 U	0.041 U	0.038 U	0.039 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.13 U	0.044 U	0.041 U	0.038 U	0.039 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.13 U	0.044 U	0.041 U	0.038 U	0.039 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.13 U	0.044 U	0.041 U	0.024 J	0.033 J
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.13 U	0.044 U	0.041 U	0.013 J	0.016 J
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.036 U	0.13 U	0.044 U	0.041 U	0.037 J	0.049 J
Inorganic													
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.046 J	0.061 J	0.013 J	0.11 J	0.023 J	0.063 J
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	3.8	**7.5 (SDBL (2013))**	3.8	**11 (SDBL (2013))**	3.1	2.9
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	11	**110 (SDBL (2013))**	**140 (SDBL (2013))**	**81 (SDBL (2013))**	22	18
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.092 J	0.73 J	0.81 J	0.68 J	0.18 J	0.19 J
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.09	0.26	0.069	0.12	0.11 U	0.14 U
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	6	**24 (SDBL (2013))**	**30 (SDBL (2013))**	**20 (SDBL (2013))**	14	16
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	2.2	**7.7 (SDBL (2013))**	**9.1 (SDBL (2013))**	**10 (SDBL (2013))**	2.5	2.3
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	5.2 J	30 J	14 J	17 J	11	17
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	**0.57 (SDBL (2013))**	0.2 U	0.3 U	0.2 U	0.2 U	0.27
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	3.4	**59 (SDBL (2013))**	12	15	8.3 J	20 J
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	140	350	310	**540 (SDBL (2013))**	190	180
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.07 UJ	0.0161 J	0.0249 J	0.0167 J	0.074 U	0.077 U
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	9.2	**39 (SDBL (2013))**	**24 (SDBL (2013))**	**29 (SDBL (2013))**	8.6	12
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	0.11	0.18	0.08 U	0.071	0.04 J	0.048 J
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.029 J	0.27	0.12 J	0.13 J	0.05 J	0.15
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.074 J	0.2	0.22	0.18	0.069 J	0.054 J
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	9.3	34	46	41	12	9.5
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	21 J	**120 J (SDBL (2013))**	45 J	32 J	32 J	31 J
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	965,000	834,000	791,000	859,000	922,000	897,000

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-28 1 - 3 07/23/03	RFI-12-28 8 - 10 07/23/03	RFI-12-28 11 - 13 07/23/03	RFI-12-29 0.7 - 2.7 07/24/03	RFI-12-29 4.7 - 6.7 07/24/03
VOC												
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.041 U [0.037 U]	0.036 U	0.038 U	0.04 U	0.041 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.082 U [0.073 U]	0.073 U	0.077 U	0.079 U	0.083 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.18 U [0.16 U]	0.16 U	0.16 U	0.17 U	0.18 U
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.041 U [0.037 U]	0.036 U	0.038 U	0.04 U	0.041 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.041 U [0.037 U]	0.036 U	0.038 U	0.04 U	0.041 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.041 U [0.037 U]	0.036 U	0.038 U	0.04 U	0.041 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.18 U [0.16 U]	0.16 U	0.16 U	0.17 U	0.18 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.18 U [0.16 U]	0.16 U	0.16 U	0.17 U	0.18 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.18 U [0.16 U]	0.16 U	0.16 U	0.17 U	0.18 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.082 U [0.073 U]	0.073 U	0.077 U	0.079 U	0.083 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.041 U [0.037 U]	0.036 U	0.038 U	0.04 U	0.041 U
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.041 U [0.037 U]	0.036 U	0.038 U	0.04 U	0.041 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.082 U [0.073 U]	0.073 U	0.077 U	0.079 U	0.083 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.082 U [0.073 U]	0.073 U	0.077 U	0.079 U	0.083 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.35 U [0.31 U]	0.31 U	0.33 U	0.34 UJ	0.35 UJ
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.082 U [0.073 U]	0.073 U	0.077 U	0.079 U	0.083 U
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	1.8 U [1.6 U]	1.6 U	1.6 U	1.7 U	1.8 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.35 U [0.31 U]	0.31 U	0.33 U	0.34 UJ	0.11 J
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.041 U [0.037 U]	0.036 U	0.038 U	0.04 U	0.041 U
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.082 U [0.073 U]	0.073 U	0.077 U	0.079 U	0.083 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.082 U [0.073 U]	0.073 U	0.077 U	0.079 U	0.083 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.18 UJ [0.16 UJ]	0.16 UJ	0.16 UJ	0.17 U	0.18 U
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.18 U [0.16 U]	0.16 U	0.16 U	0.17 UJ	0.18 UJ
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.041 U [0.037 U]	0.036 U	0.038 U	0.04 U	0.041 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.041 U [0.037 U]	0.036 U	0.038 U	0.04 U	0.041 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.18 U [0.16 U]	0.16 U	0.16 U	0.17 U	0.18 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.041 U [0.037 U]	0.036 U	0.038 U	0.04 U	0.041 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.18 U [0.16 U]	0.16 U	0.16 U	0.17 U	0.18 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.041 U [0.037 U]	0.036 U	0.038 U	0.04 U	0.041 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.041 U [0.037 U]	0.036 U	0.038 U	0.04 U	0.041 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U [0.16 U]	0.16 U	0.16 U	0.17 U	0.18 U
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.082 U [0.073 U]	0.073 U	0.077 U	0.079 U	0.083 U
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.082 U [0.073 U]	0.073 U	0.077 U	0.079 U	0.083 U
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.041 U [0.037 U]	0.036 U	0.038 U	0.04 U	0.041 U
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.18 U [0.16 U]	0.16 U	0.16 U	0.17 U	0.18 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.082 U [0.073 U]	0.073 U	0.077 U	0.079 U	0.083 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.26 [0.18]	0.16 U	0.16 U	0.037 J	0.065 J
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.18 U [0.16 U]	0.16 U	0.16 U	0.17 U	0.18 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U [0.16 U]	0.16 U	0.16 U	0.17 U	0.18 U
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.18 U [0.16 U]	0.16 U	0.16 U	0.074 J	0.067 J
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.041 U [0.037 U]	0.036 U	0.038 U	0.04 U	0.041 U
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.041 U [0.037 U]	0.036 U	0.038 U	0.04 U	0.041 U
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.041 U [0.037 U]	0.036 U	0.038 U	0.04 U	0.041 U
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.082 U [0.073 U]	0.073 U	0.077 U	0.079 U	0.083 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.041 U [0.037 U]	0.036 U	0.038 U	0.04 U	0.041 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.041 U [0.037 U]	0.036 U	0.038 U	0.04 U	0.041 U
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.041 U [0.037 U]	0.036 U	0.038 U	0.04 U	0.041 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.082 U [0.073 U]	0.073 U	0.077 U	0.079 U	0.083 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.082 U [0.073 U]	0.073 U	0.077 U	0.079 U	0.083 U

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-28 1 - 3 07/23/03	RFI-12-28 8 - 10 07/23/03	RFI-12-28 11 - 13 07/23/03	RFI-12-29 0.7 - 2.7 07/24/03	RFI-12-29 4.7 - 6.7 07/24/03
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.041 U [0.037 U]	0.036 U	0.038 U	0.04 U	0.041 U
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.21 U [0.18 UJ]	0.18 U	0.122 J	0.2 UJ	0.2 UJ
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.81 U [0.71 U]	0.72 U	0.74 U	0.78 U	0.8 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.81 U [0.71 U]	0.72 U	0.74 U	0.78 U	0.8 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.127 J [0.18 U]	0.18 U	0.603	0.2 U	0.2 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.81 U [0.71 UJ]	0.72 U	0.74 U	0.78 UJ	0.8 UJ
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.41 UJ [0.36 UJ]	0.36 UJ	0.38 UJ	0.39 U	0.4 UJ
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.81 U [0.71 U]	0.72 U	0.74 U	0.78 U	0.8 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.81 U [0.71 U]	0.72 U	0.74 U	0.78 U	0.8 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.81 U [0.71 U]	0.72 U	0.74 U	0.78 U	0.8 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.81 U [0.71 U]	0.72 U	0.74 U	0.78 U	0.8 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.81 U [0.71 U]	0.72 U	0.74 U	0.78 U	0.8 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.81 U [0.71 U]	0.72 U	0.74 U	0.78 U	0.8 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.81 U [0.71 U]	0.72 U	0.74 U	0.78 U	0.8 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.784 J [0.201 J]	0.18 U	0.0534 J	0.2 U	0.2 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	1.27 J [0.317 J]	0.18 U	0.19 U	0.2 U	0.2 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.21 U [0.18 UJ]	0.18 U	0.19 U	0.2 UJ	0.2 UJ
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.21 UJ [0.18 UJ]	0.18 UJ	0.19 UJ	0.2 UJ	0.2 UJ
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	2.98 J [0.816 J]	0.18 U	0.19 U	0.2 U	0.2 U
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	2.95 J [0.944 J]	0.18 UJ	0.19 UJ	0.2 U	0.2 U
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	3.76 J [1.15 J]	0.18 UJ	0.19 UJ	0.2 U	0.2 U
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.887 J [0.366 J]	0.18 UJ	0.19 UJ	0.2 U	0.2 U
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	2.49 J [0.827 J]	0.18 UJ	0.19 UJ	0.2 U	0.2 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.04 U [0.035 U]	0.035 U	0.036 U	0.038 U	0.039 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.0802 J
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	1.13 J [0.243 J]	0.18 U	0.19 U	0.2 U	0.2 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	2.93 J [0.886 J]	0.18 U	0.19 U	0.2 U	0.2 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.545 J [0.127 J]	0.18 UJ	0.19 UJ	0.2 U	0.2 U
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.436 J [0.117 J]	0.18 U	0.19 U	0.2 U	0.2 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-28 1 - 3 07/23/03	RFI-12-28 8 - 10 07/23/03	RFI-12-28 11 - 13 07/23/03	RFI-12-29 0.7 - 2.7 07/24/03	RFI-12-29 4.7 - 6.7 07/24/03
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.21 U [0.18 U]	0.18 UJ	0.19 UJ	0.2 U	0.2 U
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	8.19 D	0.18 U	0.152 J	0.106 J	0.2 U
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.674 J [0.17 J]	0.18 U	0.0946 J	0.2 U	0.2 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.991 J [0.385 J]	0.18 UJ	0.19 UJ	0.2 U	0.2 U
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.447 J [0.149 J]	0.18 U	0.16 J	0.2 U	0.2 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.081 U [0.071 U]	0.072 U	0.074 U	0.078 U	0.08 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.81 U [0.71 U]	0.72 U	0.74 U	0.78 U	0.8 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	4.81 J [1.41 J]	0.18 U	0.247	0.0817 J	0.2 U
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.21 U [0.18 U]	0.18 U	0.19 U	0.2 U	0.2 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	7.24 D	0.18 U	0.189	0.0863 J	0.2 U
PCB												
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.043 U [0.038 U]	0.038 U	0.039 U	0.04 U	0.042 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.043 U [0.038 U]	0.038 U	0.039 U	0.04 U	0.042 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.043 U [0.038 U]	0.038 U	0.039 U	0.04 U	0.042 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.043 U [0.038 U]	0.038 U	0.039 U	0.04 U	0.042 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.043 U [0.038 U]	0.038 U	0.039 U	0.04 U	0.042 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.043 U [0.038 U]	0.038 U	0.039 U	0.04 U	0.042 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.043 U [0.038 U]	0.038 U	0.039 U	0.04 U	0.042 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.043 U [0.038 U]	0.038 U	0.039 U	0.04 U	0.042 U
Inorganic												
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.033 J [0.028 J]	0.017 J	0.011 J	0.044 J	0.18 J
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	**6.6 (SDBL (2013)) [7.2 (SDBL (2013))]**	**11 (SDBL (2013))**	5.4	4.2	5.4
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	32 [35]	**94 (SDBL (2013))**	63	25	65
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.29 J [0.27 J]	0.6 J	0.51 J	0.29 J	0.26 J
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.15 U [0.16]	0.014 U	0.016 U	0.26	1
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	12 [14]	**22 (SDBL (2013))**	18	8.7	11
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	4.3 [4.1]	**9.3 (SDBL (2013))**	**7.8 (SDBL (2013))**	3.3	4.9
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	**42 (SDBL (2013)) [41 (SDBL (2013))]**	15	11	**94 (SDBL (2013))**	**320 (SDBL (2013))**
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.3 U [0.25]	0.3	0.36	0.2 U	0.2 U
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**26 J (SDBL (2013)) [47 J (SDBL (2013))]**	13 J	8.4 J	**43 J (SDBL (2013))**	**290 J (SDBL (2013))**
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	250 [290]	300	370	150	130
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	**7.84 D (SDBL (2013)) [5.29 D (SDBL (2013))]**	0.071 UJ	0.07 UJ	0.079 U	0.0846
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	13 [15]	**24 (SDBL (2013))**	19	9.8	12
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	0.072 [0.087]	0.057 U	0.046 J	0.077	0.078
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.28 [0.2]	0.14	0.099 J	0.081 J	0.12 J
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.11 J [0.11 J]	0.25	0.19	0.087 J	0.098 J
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	15 [15]	40	30	14	17
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	44 J [42 J]	44 J	36 J	**63 J (SDBL (2013))**	**240 J (SDBL (2013))**
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	822,000 [933,000]	930,000	905,000	861,000	840,000

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-30 0.7 - 2.7 07/24/03	RFI-12-31 0.7 - 2.7 07/25/03	RFI-12-32 0 - 2 07/28/03	RFI-12-33 1 - 2 08/28/03	RFI-12-33 2.5 - 4.5 08/28/03
VOC												
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.24	0.04 U	0.037 U [0.037 U]	0.038 U	0.039 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.082 U	0.079 U	0.074 U [0.074 U]	0.076 U	0.078 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.18 U	0.17 U	0.16 U [0.16 U]	0.16 U	0.17 U
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.041 U	0.04 U	0.037 U [0.037 U]	0.038 U	0.039 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.041 U	0.04 U	0.037 U [0.037 U]	0.038 U	0.039 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.041 U	0.04 U	0.037 U [0.037 U]	0.038 U	0.039 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.18 U	0.17 U	0.16 U [0.16 U]	0.16 U	0.17 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.18 U	0.17 U	0.16 U [0.16 U]	0.16 U	0.17 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.18 U	0.17 U	0.16 U [0.16 U]	0.16 U	0.17 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.082 U	0.079 U	0.074 U [0.074 U]	0.076 U	0.078 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.041 U	0.04 U	0.037 U [0.037 U]	0.038 U	0.039 U
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.041 U	0.04 U	0.037 U [0.037 U]	0.038 U	0.039 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.082 U	0.079 U	0.074 U [0.074 U]	0.076 U	0.078 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.082 U	0.079 U	0.074 U [0.074 U]	0.076 U	0.078 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.35 UJ	0.34 UJ	0.32 U [0.32 U]	0.088 J	0.33 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.082 U	0.079 U	0.074 U [0.074 U]	0.076 U	0.078 U
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	1.8 U	1.7 U	1.6 U [1.6 U]	1.6 U	1.7 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.15 J	0.14 J	0.32 U [0.32 U]	0.14 J	0.33 U
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.041 U	0.04 U	0.037 U [0.037 U]	0.038 U	0.043
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.082 U	0.079 U	0.074 U [0.074 U]	0.076 U	0.078 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.082 U	0.079 U	0.074 U [0.074 U]	0.076 U	0.078 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.18 U	0.17 U	0.16 UJ [0.16 UJ]	0.16 UJ	0.17 UJ
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.18 UJ	0.17 UJ	0.16 U [0.16 U]	0.16 U	0.17 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.041 U	0.04 U	0.037 U [0.037 U]	0.038 U	0.039 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.041 U	0.04 U	0.037 U [0.037 U]	0.038 U	0.039 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.18 U	0.17 U	0.16 U [0.16 U]	0.16 U	0.17 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.041 U	0.04 U	0.037 U [0.037 U]	0.038 U	0.039 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.18 U	0.17 U	0.16 U [0.16 U]	0.16 U	0.17 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.041 U	0.04 U	0.037 U [0.037 U]	0.038 U	0.039 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.041 U	0.04 U	0.037 U [0.037 U]	0.038 U	0.039 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.17 U	0.16 U [0.16 U]	0.16 U	0.17 U
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.082 U	0.079 U	0.074 U [0.074 U]	0.076 U	0.078 U
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.082 U	0.079 U	0.074 U [0.074 U]	0.076 U	0.078 U
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.041 U	0.03 J	0.037 U [0.037 U]	0.062	0.34
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.18 U	0.17 U	0.16 U [0.16 U]	0.16 U	0.032 J
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.082 U	0.089	0.074 U [0.074 U]	0.86	5.8
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.087 J	0.1 J	0.16 U [0.16 U]	0.25	0.092 J
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.18 U	0.17 U	0.16 U [0.16 U]	0.16 U	0.17 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.17 U	0.16 U [0.16 U]	0.034 J	0.056 J
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.089 J	0.058 J	0.047 J [0.06 J]	0.16 UJ	0.17 UJ
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.041 U	0.029 J	0.037 U [0.037 U]	0.31	1.9
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.041 U	0.04 U	0.037 U [0.037 U]	0.038 U	0.039 U
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.041 U	0.04 U	0.037 U [0.037 U]	0.038 U	0.039 U
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.082 U	0.042 J	0.074 U [0.074 U]	0.032 J	0.28
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.041 U	0.04 U	0.037 U [0.037 U]	0.038 U	0.039 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.041 U	0.04 U	0.037 U [0.037 U]	0.038 U	0.039 U
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.041 U	0.04 U	0.037 U [0.037 U]	0.038 U	0.039 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.082 U	0.079 U	0.074 U [0.074 U]	0.076 U	0.078 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.082 U	0.079 U	0.074 U [0.074 U]	0.076 U	0.078 U

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-30 0.7 - 2.7 07/24/03	RFI-12-31 0.7 - 2.7 07/25/03	RFI-12-32 0 - 2 07/28/03	RFI-12-33 1 - 2 08/28/03	RFI-12-33 2.5 - 4.5 08/28/03
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.041 U	0.029 J	0.037 U [0.037 U]	0.31	1.9
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.2 UJ	0.19 UJ	0.19 U [0.18 U]	0.19 U	0.96 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.77 U	0.73 U [0.72 U]	0.74 U	3.8 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.79 U	0.77 U	0.73 U [0.72 U]	0.74 U	3.8 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.2 U	0.126 J	0.19 U [0.18 U]	0.0695 J	0.96 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.79 UJ	0.77 U	0.73 U [0.72 U]	0.74 U	3.8 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.4 UJ	0.39 UJ	0.37 UJ [0.37 UJ]	0.38 UJ	1.9 UJ
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.79 U	0.77 U	0.73 U [0.72 U]	0.74 U	3.8 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.77 U	0.73 U [0.72 U]	0.74 U	3.8 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.79 U	0.77 U	0.73 U [0.72 U]	0.74 U	3.8 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.77 U	0.73 U [0.72 U]	0.74 U	3.8 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.77 UJ	0.73 U [0.72 U]	0.74 U	3.8 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.77 U	0.73 U [0.72 U]	0.74 U	3.8 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.77 U	0.73 U [0.72 U]	0.74 U	3.8 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.2 U	0.19 U	0.0625 J [0.101 J]	0.0743 J	0.96 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.2 U	0.0741 J	0.19 U [0.18 U]	0.19 U	0.96 U
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.2 U	0.19 U	0.127 J [0.301 J]	0.107 J	0.96 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.2 UJ	0.19 UJ	0.19 UJ [0.18 U]	0.19 U	0.96 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.2 UJ	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.0907 J	0.154 J	0.331 J [0.679 J]	0.363	0.96 U
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.131 J	0.176 J	0.349 J [0.721 J]	0.331 J	0.406 J
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.103 J	0.186 J	0.392 J [0.838 J]	0.46 J	0.44 J
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.2 UJ	0.324 J	0.19 U [0.337]	0.167 J	0.359 J
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.0935 J	0.155 J	0.389 [0.648]	0.409 J	0.96 UJ
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.039 U	0.038 U	0.036 U [0.035 U]	0.036 U	0.19 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.2 U	0.0924 J	0.19 U [0.151 J]	0.51	0.96 U
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 UJ	0.19 U [0.0869 J]	0.19 U	0.96 U
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 UJ	0.073 J [0.151 J]	0.19 U	0.96 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.165 J	0.473 J	0.381 J [0.741 J]	0.437	0.412 J
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.2 UJ	0.19 UJ	0.19 U [0.18 U]	0.19 UJ	0.96 UJ
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.2 U	0.19 U	0.19 U [0.18 U]	0.0963 J	0.96 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 UJ	0.19 U [0.18 U]	0.19 U	0.96 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-30 0.7 - 2.7 07/24/03	RFI-12-31 0.7 - 2.7 07/25/03	RFI-12-32 0 - 2 07/28/03	RFI-12-33 1 - 2 08/28/03	RFI-12-33 2.5 - 4.5 08/28/03
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.2 UJ	0.19 UJ	0.19 U [0.18 U]	0.19 UJ	0.96 UJ
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.161 J	0.181 J	0.785 J [1.57 J]	0.836	0.435 J
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.2 U	0.19 U	0.19 U [0.111 J]	0.19 U	0.96 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.2 UJ	0.138 J	0.19 U [0.318]	0.146 J	0.96 UJ
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.2 U	0.19 U	0.19 U [0.18 U]	0.0596 J	0.96 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.079 U	0.077 U	0.073 U [0.072 U]	0.074 U	0.38 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.79 U	0.77 U	0.73 U [0.72 U]	0.74 U	3.8 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.239	0.324	0.498 J [1.08 J]	0.82	0.96 U
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.19 U [0.18 U]	0.19 U	0.96 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.226	0.662 J	0.79 J [1.77 J]	1.04	0.79 J
PCB												
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.04 U	0.038 U [0.038 U]	0.039 U	0.04 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.04 U	0.038 U [0.038 U]	0.039 U	0.04 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.04 U	0.038 U [0.038 U]	0.039 U	0.04 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.04 U	0.038 U [0.038 U]	0.039 U	0.04 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.04 U	0.038 U [0.038 U]	0.039 U	0.04 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.04 U	0.027 J [0.06 J]	0.039 U	0.04 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.04 U	0.057 [0.061]	0.039 U	0.04 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.041 U	0.04 U	0.084 J [0.121 J]	0.039 U	0.04 U
Inorganic												
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.4 J	190 J	0.053 J [0.062 J]	0.19 J	0.19 J
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	**8.1 (SDBL (2013))**	**13 (SDBL (2013))**	3.8 [3]	**6.9 J (SDBL (2013))**	**6.6 J (SDBL (2013))**
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	**550 (SDBL (2013))**	**1,000 (SDBL (2013))**	26 [21]	**480 (SDBL (2013))**	58
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.67 J	0.33 J	0.15 J [0.13 J]	0.66 J	0.54 J
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.95	**7.5 (SDBL (2013))**	0.23 [0.16 U]	0.74	1
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	**360 (SDBL (2013))**	**120 (SDBL (2013))**	9.5 [6.9]	**99 J (SDBL (2013))**	**210 J (SDBL (2013))**
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	**8.6 (SDBL (2013))**	6.5	2.9 J [2.5 J]	5.6 J	5.2 J
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	**720 (SDBL (2013))**	**720 (SDBL (2013))**	13 J [9.7 J]	**190 J (SDBL (2013))**	**510 J (SDBL (2013))**
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.33	0.25	**2 (SDBL (2013)) [9 U]**	0.38 J	0.32 J
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**730 J (SDBL (2013))**	**10,000 J (NDC (2013),SDBL (2013))**	15 [8.8]	**850 (SDBL (2013))**	**260 (SDBL (2013))**
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	**550 (SDBL (2013))**	**520 (SDBL (2013))**	240 [180]	430	340
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	**0.18 (SDBL (2013))**	**0.54 D (SDBL (2013))**	0.00754 J [0.00727 J]	0.117	0.0597 J
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	**70 (SDBL (2013))**	**88 (SDBL (2013))**	12 J [7.2 J]	**37 J (SDBL (2013))**	19 J
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	0.18	0.25	0.11 J [0.055 J]	0.11	0.27
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.26	0.91	0.044 J [0.036 J]	0.49	0.24
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.11 J	0.088 J	0.066 J [0.064 J]	0.14 J	0.12 J
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	100	17	12 [11]	40 J	51 J
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	**250 J (SDBL (2013))**	**320 J (SDBL (2013))**	45 J [38 J]	**200 J (SDBL (2013))**	**190 J (SDBL (2013))**
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	852,000	872,000	917,000 [928,000]	903,000	879,000

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-34 0.8 - 2.8 08/28/03	RFI-12-34 2.8 - 4.8 08/28/03	RFI-12-34 4.8 - 6.8 08/28/03	RFI-12-35 3 - 4 08/29/03
VOC											
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.038 U	0.038 U	0.037 U	0.041 U [0.04 U]
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.076 U	0.076 U	0.075 U	0.081 U [0.08 U]
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.16 U	0.16 U	0.16 U	0.17 U [0.17 U]
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.038 U	0.038 U	0.037 U	0.041 U [0.04 U]
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.038 U	0.038 U	0.037 U	0.041 U [0.04 U]
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.038 U	0.038 U	0.037 U	0.041 U [0.04 U]
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.16 U	0.16 U	0.16 U	0.17 U [0.17 U]
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.16 U	0.16 U	0.16 U	0.17 U [0.17 U]
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.16 U	0.16 U	0.16 U	0.17 U [0.17 U]
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.076 U	0.076 U	0.075 U	0.081 U [0.08 U]
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.038 U	0.038 U	0.037 U	0.041 U [0.04 U]
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.038 U	0.038 U	0.037 U	0.041 U [0.04 U]
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.076 U	0.076 U	0.075 U	0.081 U [0.08 U]
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.076 U	0.076 U	0.075 U	0.081 U [0.08 U]
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.33 U	0.33 U	0.32 U	0.35 U [0.34 U]
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.076 U	0.076 U	0.075 U	0.081 U [0.08 U]
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	1.6 U	1.6 U	1.6 U	1.7 U [1.7 U]
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.33 U	0.33 U	0.32 U	0.35 U [0.34 U]
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.038 U	0.038 U	0.037 U	0.041 U [0.04 U]
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.076 U	0.076 U	0.075 U	0.081 U [0.08 U]
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.076 U	0.076 U	0.075 U	0.081 U [0.08 U]
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.16 UJ	0.16 UJ	0.16 UJ	0.17 UJ [0.17 UJ]
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.16 U	0.16 U	0.16 U	0.17 U [0.17 U]
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.038 U	0.038 U	0.037 U	0.041 U [0.04 U]
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.038 U	0.038 U	0.037 U	0.041 U [0.04 U]
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.16 U	0.16 U	0.16 U	0.17 U [0.17 U]
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.038 U	0.038 U	0.037 U	0.041 U [0.04 U]
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.16 U	0.16 U	0.16 U	0.17 U [0.17 U]
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.038 U	0.038 U	0.037 U	0.041 U [0.04 U]
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.038 U	0.038 U	0.037 U	0.041 U [0.04 U]
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.16 U	0.16 U	0.16 U	0.12 J [0.38 J]
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.076 U	0.076 U	0.075 U	0.081 U [0.08 U]
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.076 U	0.076 U	0.075 U	0.081 U [0.08 U]
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.038 U	0.038 U	0.037 U	0.061 [0.051]
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.16 U	0.16 U	0.16 U	0.17 J [0.23]
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.076 U	0.076 U	0.054 J	0.36 J [0.64 J]
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	1.8	1.2	0.18	0.058 J [0.17 U]
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.16 U	0.16 U	0.16 U	0.17 U [0.17 U]
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.16 U	0.16 U	0.16 U	0.65 J [1.6 J]
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.16 UJ	0.16 UJ	0.16 UJ	0.17 UJ [0.17 UJ]
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.038 U	0.038 U	0.037 U	0.052 J [0.093 J]
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.038 U	0.038 U	0.037 U	0.041 U [0.04 U]
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.038 U	0.038 U	0.037 U	0.041 U [0.04 U]
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.076 U	0.076 U	0.022 J	0.027 J [0.08 U]
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.038 U	0.038 U	0.037 U	0.041 U [0.04 U]
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.038 U	0.038 U	0.037 U	0.041 U [0.04 U]
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.038 U	0.038 U	0.044	0.041 U [0.04 U]
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.076 U	0.076 U	0.075 U	0.081 U [0.08 U]
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.076 U	0.076 U	0.075 U	0.081 U [0.08 U]

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-34 0.8 - 2.8 08/28/03	RFI-12-34 2.8 - 4.8 08/28/03	RFI-12-34 4.8 - 6.8 08/28/03	RFI-12-35 3 - 4 08/29/03
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.038 U	0.038 U	0.037 U	0.052 J [0.093 J]
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	R	0.19 U	0.18 U	0.2 U [0.99 U]
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	R	0.19 U	0.18 U	0.2 U [0.99 U]
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	R	0.19 U	0.18 U	0.2 U [0.99 U]
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	R	0.19 U	0.18 U	0.2 U [0.99 U]
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	R	0.74 U	0.72 U	0.79 U [3.9 U]
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.7 U	0.74 U	0.72 U	0.79 U [3.9 U]
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	R	0.19 U	0.18 U	0.2 U [0.99 U]
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.18 U	0.19 U	0.18 U	1.07 [1.57]
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	R	0.19 U	0.18 U	0.2 U [0.99 U]
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.7 U	0.74 U	0.72 U	0.79 U [3.9 U]
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	R	0.19 U	0.18 U	0.2 U [0.99 U]
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	R	0.38 UJ	0.37 UJ	0.4 UJ [2 UJ]
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.7 U	0.74 U	0.72 U	0.79 U [3.9 U]
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.7 UJ	0.74 UJ	0.72 UJ	0.79 UJ [3.9 UJ]
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	R	0.74 U	0.72 U	0.79 U [3.9 U]
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	R	0.19 U	0.18 U	0.2 U [0.99 U]
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.7 U	0.74 U	0.72 U	0.79 U [3.9 U]
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.7 U	0.74 U	0.72 U	0.79 U [3.9 U]
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.7 UJ	0.74 UJ	0.72 UJ	0.79 UJ [3.9 UJ]
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	R	0.74 U	0.72 U	0.79 U [3.9 U]
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.094 J [0.99 U]
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.18 U	0.19 U	0.18 U	0.2 UJ [0.99 U]
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.2 UJ [0.99 U]
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.2 UJ [0.99 U]
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.034 U	0.037 U	0.035 U	0.039 U [0.19 U]
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.135 J [0.99 U]
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 UJ	0.18 UJ	0.2 UJ [0.99 UJ]
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.0742 J	0.18 U	0.154 J [0.99 U]
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.2 UJ [0.99 U]
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.18 U	0.19 U	0.18 U	0.0881 J [0.99 U]
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-12-34 0.8 - 2.8 08/28/03	RFI-12-34 2.8 - 4.8 08/28/03	RFI-12-34 4.8 - 6.8 08/28/03	RFI-12-35 3 - 4 08/29/03
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.2 UJ [0.99 U]
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.0788 J	0.14 J	0.18 U	0.2 U [0.99 U]
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.18 U	0.19 U	0.18 U	0.175 J [0.99 U]
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.2 UJ [0.99 U]
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	R	0.19 U	0.18 U	0.2 U [0.99 U]
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.18 U	0.19 U	0.18 U	0.194 J [0.99 U]
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.07 U	0.074 U	0.072 U	0.079 U [0.39 U]
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.2 U [0.99 U]
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	R	0.74 U	0.72 U	0.79 U [3.9 U]
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.18 U	0.101 J	0.18 U	1.06 [1.48]
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	R	0.19 U	0.18 U	0.2 U [0.99 U]
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.18 U	0.114 J	0.18 U	0.184 J [0.99 U]
PCB											
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.039 U	0.038 U	0.042 U [0.041 U]
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.039 U	0.038 U	0.042 U [0.041 U]
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.039 U	0.038 U	0.042 U [0.041 U]
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.039 U	0.038 U	0.042 U [0.041 U]
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.039 U	0.038 U	0.042 U [0.041 U]
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.032 J	0.028 J	0.021 J	0.042 U [0.041 U]
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.039 U	0.038 U	0.042 U [0.041 U]
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.032 J	0.028 J	0.021 J	0.042 U [0.041 U]
Inorganic											
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.067 J	R	0.018 J	R [R]
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	5 J	4.5 J	**7.7 J (SDBL (2013))**	**11 J (SDBL (2013)) [7.2 J (SDBL (2013))]**
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	38	**88 (SDBL (2013))**	**160 (SDBL (2013))**	**100 (SDBL (2013)) [72]**
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.17 J	0.51 J	0.56 J	0.74 J [0.51 J]
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.54	0.19	0.45	0.13 U [0.36]
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	**44 J (SDBL (2013))**	**25 J (SDBL (2013))**	**64 J (SDBL (2013))**	**29 J (SDBL (2013)) [21 J (SDBL (2013))]**
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	2.7 J	**7.3 J (SDBL (2013))**	**8.7 J (SDBL (2013))**	**11 J (SDBL (2013)) [9.4 J (SDBL (2013))]**
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	25 J	25 J	**68 J (SDBL (2013))**	18 J [16 J]
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.28 J	0.37 J	0.23 J	**0.49 J (SDBL (2013)) [0.34 J]**
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	14	**47 (SDBL (2013))**	**53 (SDBL (2013))**	15 [13]
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	220	**520 (SDBL (2013))**	**2,200 (NPSIC (2013),SDBL (2013))**	420 [260]
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.0434 J	**0.478 (SDBL (2013))**	0.061 J	0.0219 J [0.0122 J]
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	13 J	**21 J (SDBL (2013))**	**28 J (SDBL (2013))**	**25 J (SDBL (2013)) [21 J (SDBL (2013))]**
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	0.1	0.12	0.2 J	0.097 J [0.36 J]
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.54	0.14	0.26	0.12 J [0.12 J]
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.056 J	0.16	0.22	0.31 [0.23]
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	17 J	27 J	31 J	46 J [33 J]
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	**48 J (SDBL (2013))**	45 J	**72 J (SDBL (2013))**	**49 J (SDBL (2013)) [85 J (SDBL (2013))]**
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	953,000	896,000	923,000	835,000 [846,000]

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-29-01 0.6 - 2 05/15/01	RFI-29-01 2 - 4 05/15/01	RFI-29-02 1 - 3 09/05/01	RFI-29-03 1 - 3 09/05/01
VOC											
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.039 U	0.041 U	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.078 U	0.082 U	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.17 U	0.18 U	NA	NA
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.039 U	0.041 U	NA	NA
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.039 U	0.041 U	NA	NA
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.039 U	0.041 U	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.17 UJ	0.18 UJ	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.17 U	0.18 U	NA	NA
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.17 U	0.18 U	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.078 U	0.082 U	NA	NA
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.039 U	0.041 U	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.039 U	0.041 U	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.078 U	0.082 U	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.078 U	0.082 U	NA	NA
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.28 U	0.29 U	NA	NA
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.28 U	0.29 U	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.28 U	0.29 U	NA	NA
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.28 U	0.29 U	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.039 U	0.041 U	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.078 U	0.082 U	NA	NA
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.078 U	0.082 U	NA	NA
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.17 U	0.18 U	NA	NA
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.17 U	0.18 U	NA	NA
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.039 U	0.041 U	NA	NA
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.039 U	0.041 U	NA	NA
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.17 U	0.18 U	NA	NA
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.039 U	0.041 U	NA	NA
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.17 U	0.18 U	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.039 UJ	0.041 UJ	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.039 U	0.041 U	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.17 UJ	0.18 UJ	NA	NA
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.078 U	0.082 U	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.078 U	0.082 U	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.039 U	0.041 U	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.17 U	0.18 U	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.036 J	0.082 U	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.045 J	0.1 J	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.28 U	0.29 U	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.045 J	0.18 U	NA	NA
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.17 U	0.18 U	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.039 U	0.041 U	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.039 U	0.041 U	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.039 U	0.041 U	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.039 U	0.041 U	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.039 U	0.041 U	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.039 U	0.041 U	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.039 U	0.041 U	NA	NA
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.078 U	0.082 U	NA	NA
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.039 U	0.041 U	NA	NA

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-29-01 0.6 - 2 05/15/01	RFI-29-01 2 - 4 05/15/01	RFI-29-02 1 - 3 09/05/01	RFI-29-03 1 - 3 09/05/01
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.039 U	0.041 U	NA	NA
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.75 U	0.79 U	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.75 U	0.79 U	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.19 U	0.2 U	NA	NA
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.19 U	0.2 U	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.19 U	0.2 U	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.75 U	0.79 U	NA	NA
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.38 U	0.4 U	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.75 U	0.79 U	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.75 U	0.79 U	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.75 U	0.79 U	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.75 U	0.79 U	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.75 U	0.79 U	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.75 U	0.79 U	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.75 U	0.79 U	NA	NA
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.19 U	0.2 U	NA	NA
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.19 U	0.2 U	NA	NA
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.19 U	0.2 U	NA	NA
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.0607 J	0.2 U	NA	NA
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.264	0.2 U	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.234	0.2 U	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.287	0.2 U	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.175 J	0.2 U	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.245	0.2 U	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.037 U	0.039 U	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	NA	NA
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	NA	NA
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	NA	NA
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	NA	NA
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.288	0.2 U	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.19 U	0.2 U	NA	NA
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	NA	NA
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	NA	NA
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	NA	NA

Table C-2

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of Soil Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-29-01 0.6 - 2 05/15/01	RFI-29-01 2 - 4 05/15/01	RFI-29-02 1 - 3 09/05/01	RFI-29-03 1 - 3 09/05/01
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	NA	NA
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.451	0.2 U	NA	NA
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.19 U	0.2 U	NA	NA
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.19 U	0.2 U	NA	NA
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.19 U	0.2 U	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.19 U	0.2 U	NA	NA
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.19 U	0.2 U	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.159 J	0.2 U	NA	NA
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	NA	NA
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.19 U	0.2 U	NA	NA
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.075 U	0.079 U	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	NA	NA
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.75 U	0.79 U	NA	NA
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.298	0.2 U	NA	NA
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	NA	NA
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.555	0.2 U	NA	NA
PCB											
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.041 U	NA	NA
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.041 U	NA	NA
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.041 U	NA	NA
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.041 U	NA	NA
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.041 U	NA	NA
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.041 U	NA	NA
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.041 U	NA	NA
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.039 U	0.041 U	NA	NA
Inorganic											
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.37 U	0.41 U	NA	NA
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	**8.1 (SDBL (2013))**	5.8	NA	NA
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	**400 J (SDBL (2013))**	44 J	NA	NA
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	1.5	0.42	NA	NA
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	1.2 J	0.11 J	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	**210 J (SDBL (2013))**	15 J	NA	NA
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	**39 (SDBL (2013))**	6.6	NA	NA
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	**600 (SDBL (2013))**	13	NA	NA
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.2 U	0.2 U	NA	NA
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**1,500 J (NDC (2013),SDBL (2013))**	12 J	**96 (SDBL (2013))**	**470 (SDBL (2013))**
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	440 J	340 J	NA	NA
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	**0.22 (SDBL (2013))**	0.0341 J	NA	NA
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	**50 (SDBL (2013))**	14	NA	NA
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	**0.71 J (SDBL (2013))**	**1.6 U**	NA	NA
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.23	0.19 U	NA	NA
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.24 U	0.26 U	NA	NA
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	66 J	22 J	NA	NA
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	**740 J (SDBL (2013))**	45 J	NA	NA
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	894,000	850,000	890,000	889,000

Table C-3

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of LNAPL Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	BLDG 23 BASEMENT 11/13/02	BLDG 23 TRENCH 11/20/02	RFI-12-02 05/16/01	RFI-12-09 06/13/01	RFI-12-11D_LNAPL 09/27/13	RFI-12-22 09/15/03	RFI-12-23 04/02/03	RFI-12-23 05/19/03	RFI-12-35_LNAPL 09/27/13	RFI-12-38 04/21/04
VOC											
1,1,1-Trichloroethane	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
1,1,2,2-Tetrachloroethane	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	0.63 U	0.63 U	13 U	0.63 U	NA	0.62 U	6.2 U	NA	NA	0.62 U
1,1,2-Trichloroethane	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
1,1-Dichloroethane	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
1,1-Dichloroethene	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
1,2,4-Trichlorobenzene	mg/kg	0.82	0.33	2.5 U	0.13 UJ	NA	0.12 U	1.2 U	NA	NA	0.12 U
1,2-Dibromo-3-chloropropane	mg/kg	0.13 U	0.13 U	2.5 U	0.13 UJ	NA	0.12 U	1.2 UJ	NA	NA	0.12 U
1,2-Dibromoethane	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
1,2-Dichlorobenzene	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
1,2-Dichloroethane	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
1,2-Dichloropropane	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
1,3-Dichlorobenzene	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
1,4-Dichlorobenzene	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
2-Butanone	mg/kg	0.63 U	0.63 U	13 U	0.094 J	NA	0.62 UJ	6.2 UJ	NA	NA	0.62 UJ
2-Hexanone	mg/kg	0.63 U	0.63 U	13 U	0.63 U	NA	0.62 U	6.2 U	NA	NA	0.62 U
4-Methyl-2-pentanone	mg/kg	0.63 U	0.63 U	13 U	0.63 U	NA	0.62 U	6.2 U	NA	NA	0.62 U
Acetone	mg/kg	0.32	0.63 U	13 U	1.5	NA	0.62 UJ	6.2 U	NA	NA	0.62 U
Benzene	mg/kg	0.094	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.31
Bromodichloromethane	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
Bromoform	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
Bromomethane	mg/kg	0.13 U	0.13 U	2.5 UJ	0.13 U	NA	0.12 UJ	1.2 U	NA	NA	0.12 UJ
Carbon Disulfide	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 UJ	1.2 U	NA	NA	0.12 U
Carbon Tetrachloride	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
Chlorobenzene	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
Chloroethane	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
Chloroform	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
Chloromethane	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 UJ	1.2 U	NA	NA	0.12 U
cis-1,2-Dichloroethene	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
cis-1,3-Dichloropropene	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
Cyclohexane	mg/kg	0.63 U	0.63 U	2.2 J	0.63 U	NA	0.62 U	5.5 J	NA	NA	5.6
Dibromochloromethane	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
Dichlorodifluoromethane	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
Ethylbenzene	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	0.93 J	NA	NA	0.45
Isopropylbenzene	mg/kg	0.13 U	0.13 U	2.3 J	0.073 J	NA	3.3 J	3.6	NA	NA	0.5
m&p-Xylene	mg/kg	0.25 U	0.25 U	5 U	0.25 U	NA	0.25 U	1.3 J	NA	NA	0.25 U
Methyl acetate	mg/kg	0.095	0.083 J	13 U	0.63 U	NA	0.62 UJ	6.2 UJ	NA	NA	0.62 UJ

Table C-3

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of LNAPL Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	BLDG 23 BASEMENT 11/13/02	BLDG 23 TRENCH 11/20/02	RFI-12-02 05/16/01	RFI-12-09 06/13/01	RFI-12-11D_LNAPL 09/27/13	RFI-12-22 09/15/03	RFI-12-23 04/02/03	RFI-12-23 05/19/03	RFI-12-35_LNAPL 09/27/13	RFI-12-38 04/21/04
Methyl tert-butyl ether	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 UJ	1.2 U	NA	NA	0.12 U
Methylcyclohexane	mg/kg	0.63 U	0.63 U	8.3 J	0.63 U	NA	9.7	24	NA	NA	12 D
Methylene Chloride	mg/kg	0.63 U	0.63 U	0.9 J	0.63 U	NA	0.22 J	1.8 J	NA	NA	0.62 U
o-Xylene	mg/kg	0.13 U	0.13 U	2.5 U	0.064 J	NA	0.12 U	0.92 J	NA	NA	0.13
Styrene	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
Tetrachloroethene	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
Toluene	mg/kg	0.07	0.13 U	0.33 J	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
trans-1,2-Dichloroethene	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
trans-1,3-Dichloropropene	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
Trichloroethene	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
Trichlorofluoromethane	mg/kg	0.13 U	0.13 U	0.48 J	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
Vinyl Chloride	mg/kg	0.13 U	0.13 U	2.5 U	0.13 U	NA	0.12 U	1.2 U	NA	NA	0.12 U
Xylenes (total)	mg/kg	0.13 U	0.13 U	2.5 U	0.064 J	NA	0.12 U	0.92 J	NA	NA	0.13
SVOC											
1,1'-Biphenyl	mg/kg	1,200 U	1,200 U	500 U	500 U	NA	500 U	65 J	NA	NA	49 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	1,200 U	1,200 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U
2,4,5-Trichlorophenol	mg/kg	3,700 U	3,600 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U
2,4,6-Trichlorophenol	mg/kg	2,500 U	2,400 U	NA	NA	NA	500 U	480 U	NA	NA	49 U
2,4-Dichlorophenol	mg/kg	2,500 U	2,400 U	NA	NA	NA	500 U	480 U	NA	NA	49 U
2,4-Dimethylphenol	mg/kg	3,700 U	3,600 U	NA	NA	NA	500 U	480 U	NA	NA	49 U
2,4-Dinitrophenol	mg/kg	2,000 U	1,900 U	2,000 UJ	2,000 U	NA	2,000 U	1,900 U	NA	NA	200 U
2,4-Dinitrotoluene	mg/kg	1,200 U	1,200 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U
2,6-Dinitrotoluene	mg/kg	2,200 U	2,200 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U
2-Chloronaphthalene	mg/kg	1,200 U	1,200 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U
2-Chlorophenol	mg/kg	2,500 U	2,400 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U
2-Methylnaphthalene	mg/kg	1,200 U	1,200 U	170 J	500 U	NA	360 J	420 J	NA	NA	49 U
2-Methylphenol	mg/kg	2,500 U	2,400 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U
2-Nitroaniline	mg/kg	1,200 U	1,200 U	2,000 U	2,000 U	NA	2,000 U	1,900 U	NA	NA	200 U
2-Nitrophenol	mg/kg	2,500 U	2,400 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U
3&4-Methylphenol	mg/kg	3,700 U	3,600 UJ	1,000 U	1,000 U	NA	990 UJ	960 UJ	NA	NA	99 U
3,3'-Dichlorobenzidine	mg/kg	6,200 U	6,100 U	2,000 UJ	2,000 UJ	NA	2,000 U	1,900 U	NA	NA	2,000 U
3-Nitroaniline	mg/kg	1,200 U	1,200 U	2,000 U	2,000 U	NA	2,000 U	1,900 U	NA	NA	200 U
4,6-Dinitro-2-methylphenol	mg/kg	1,500 U	1,500 U	2,000 U	2,000 U	NA	2,000 U	1,900 U	NA	NA	2,000 U
4-Bromophenyl-phenylether	mg/kg	1,500 U	1,500 U	500 U	500 U	NA	500 U	480 U	NA	NA	490 U
4-Chloro-3-Methylphenol	mg/kg	2,500 U	2,400 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U
4-Chloroaniline	mg/kg	1,200 U	1,200 U	2,000 U	2,000 U	NA	2,000 U	1,900 U	NA	NA	200 U
4-Chlorophenyl-phenylether	mg/kg	1,200 U	1,200 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U
4-Nitroaniline	mg/kg	1,500 U	1,500 U	2,000 U	2,000 U	NA	2,000 U	1,900 U	NA	NA	200 U

Table C-3

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of LNAPL Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID:		BLDG 23 BASEMENT	BLDG 23 TRENCH	RFI-12-02	RFI-12-09	RFI-12-11D_LNAPL	RFI-12-22	RFI-12-23	RFI-12-23	RFI-12-35_LNAPL	RFI-12-38
Date Collected:	Units	11/13/02	11/20/02	05/16/01	06/13/01	09/27/13	09/15/03	04/02/03	05/19/03	09/27/13	04/21/04
4-Nitrophenol	mg/kg	1,700 U	1,700 U	2,000 U	2,000 UJ	NA	2,000 U	1,900 U	NA	NA	200 U
Acenaphthene	mg/kg	1,200 U	1,200 U	500 U	500 U	NA	58 J	480 U	NA	NA	49 U
Acenaphthylene	mg/kg	1,200 U	1,200 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U
Acetophenone	mg/kg	1,200 U	1,200 U	500 U	500 UJ	NA	500 U	480 U	NA	NA	49 U
Anthracene	mg/kg	1,700 U	1,700 U	500 U	500 U	NA	500 U	480 U	NA	NA	490 U
Atrazine	mg/kg	1,200 U	1,200 U	500 U	500 U	NA	500 U	480 U	NA	NA	490 U
Benzaldehyde	mg/kg	3,700 U	3,600 UJ	500 U	500 UJ	NA	500 U	480 UJ	NA	NA	49 UJ
Benzo(a)anthracene	mg/kg	1,200 U	1,200 U	500 UJ	500 U	NA	500 U	480 U	NA	NA	490 U
Benzo(a)pyrene	mg/kg	490 U	490 U	500 UJ	500 U	NA	500 U	480 U	NA	NA	490 U
Benzo(b)fluoranthene	mg/kg	740 U	730 U	500 UJ	500 U	NA	500 U	480 U	NA	NA	490 U
Benzo(g,h,i)perylene	mg/kg	1,500 U	1,500 U	500 UJ	500 U	NA	500 UJ	480 U	NA	NA	490 U
Benzo(k)fluoranthene	mg/kg	1,500 U	1,500 U	500 UJ	500 U	NA	500 U	480 U	NA	NA	490 U
bis(2-Chloroethoxy)methane	mg/kg	990 U	970 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U
bis(2-Chloroethyl)ether	mg/kg	2,500 U	2,400 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U
bis(2-Ethylhexyl)phthalate	mg/kg	600	970 U	500 UJ	500 U	NA	500 U	480 U	NA	NA	490 U
Butylbenzylphthalate	mg/kg	1,200 U	1,200 U	500 UJ	500 U	NA	500 U	480 U	NA	NA	490 U
Caprolactam	mg/kg	1,200 U	1,200 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U
Carbazole	mg/kg	1,200 U	1,200 U	500 U	500 U	NA	500 U	480 U	NA	NA	490 U
Chrysene	mg/kg	1,200 U	1,200 U	500 UJ	500 U	NA	500 U	480 U	NA	NA	490 U
Dibenzo(a,h)anthracene	mg/kg	990 U	970 U	500 UJ	500 U	NA	500 UJ	480 U	NA	NA	490 U
Dibenzofuran	mg/kg	1,200 U	1,200 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U
Diethylphthalate	mg/kg	3,700 U	3,600 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U
Dimethylphthalate	mg/kg	1,500 U	1,500 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U
Di-n-Butylphthalate	mg/kg	1,200 U	1,200 U	500 U	500 U	NA	500 U	480 U	NA	NA	490 U
Di-n-Octylphthalate	mg/kg	1,500	880 J	500 UJ	500 U	NA	500 U	480 U	NA	NA	490 U
Fluoranthene	mg/kg	1,200 U	1,200 U	500 U	500 U	NA	500 U	480 U	NA	NA	490 U
Fluorene	mg/kg	1,200 U	1,200 U	500 U	500 U	NA	100 J	81 J	NA	NA	49 U
Hexachlorobenzene	mg/kg	1,200 U	1,200 U	500 U	500 UJ	NA	500 U	480 U	NA	NA	490 U
Hexachlorobutadiene	mg/kg	990 U	970 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U
Hexachlorocyclopentadiene	mg/kg	740 U	730 U	500 U	500 UJ	NA	500 U	480 U	NA	NA	49 U
Hexachloroethane	mg/kg	990 U	970 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U
Indeno(1,2,3-cd)pyrene	mg/kg	990 U	970 U	500 UJ	500 U	NA	500 U	480 U	NA	NA	490 U
Isophorone	mg/kg	1,200 U	1,200 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U
Methylphenols, Total	mg/kg	2,500 U	2,400 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U
Naphthalene	mg/kg	2,500 U	2,400 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U
Nitrobenzene	mg/kg	1,200 U	1,200 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U
N-Nitroso-di-n-propylamine	mg/kg	1,200 U	1,200 U	500 U	500 U	NA	500 U	480 U	NA	NA	490 U
N-Nitrosodiphenylamine	mg/kg	1,500 U	1,500 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U

Table C-3

Priority #4 - AOI 12-A, -B, & -C Hydraulic Oil Area
Summary of LNAPL Sample Analytical Results,
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	BLDG 23 BASEMENT 11/13/02	BLDG 23 TRENCH 11/20/02	RFI-12-02 05/16/01	RFI-12-09 06/13/01	RFI-12-11D_LNAPL 09/27/13	RFI-12-22 09/15/03	RFI-12-23 04/02/03	RFI-12-23 05/19/03	RFI-12-35_LNAPL 09/27/13	RFI-12-38 04/21/04
Pentachlorophenol	mg/kg	2,500 U	2,400 U	2,000 U	2,000 U	NA	2,000 U	1,900 U	NA	NA	2,000 U
Phenanthrene	mg/kg	1,500 U	1,500 U	280 J	500 U	NA	280 J	180 J	NA	NA	490 U
Phenol	mg/kg	1,200 U	1,200 U	500 U	500 U	NA	500 U	480 U	NA	NA	49 U
Pyrene	mg/kg	1,200 U	1,200 U	180 J	500 U	NA	91 J	480 U	NA	NA	490 U
PCB											
Aroclor-1016	mg/kg	0.97 U	0.98 U	5 U	0.99 U	1 U	1 U	0.97 U	NA	1 U	1 U
Aroclor-1221	mg/kg	0.97 U	0.98 U	5 U	0.99 U	1 U	1 U	0.97 U	NA	1 U	1 U
Aroclor-1232	mg/kg	0.97 U	0.98 U	5 U	0.99 U	1 U	1 U	0.97 U	NA	1 U	1 U
Aroclor-1242	mg/kg	0.97 U	0.98 U	5 U	0.99 U	1 U	1 U	0.97 U	NA	1 U	1 U
Aroclor-1248	mg/kg	0.97 U	0.98 U	5 U	0.99 U	1 U	1 U	0.97 U	NA	1 U	1 U
Aroclor-1254	mg/kg	0.97 U	0.98 U	5 U	0.99 U	1 U	1 U	0.97 U	NA	1 U	1 U
Aroclor-1260	mg/kg	0.97 U	0.98 U	5 U	0.99 U	1 U	1 U	0.97 U	NA	1 U	8.6
Total PCBs	mg/kg	0.97 U	0.98 U	5 U	0.99 U	1 U	1 U	0.97 U	NA	1 U	8.6
Inorganic											
Antimony	mg/kg	4.1	2.1 J	0.047 J	0.28 J	NA	1.8 U	0.14 J	NA	NA	0.089 J
Arsenic	mg/kg	1.1	0.37 J	3.6 J	0.56 J	NA	8	2.8	NA	NA	0.8
Barium	mg/kg	18	10 J	2.5 J	7.9 J	NA	0.75 J	1.9	NA	NA	2
Beryllium	mg/kg	0.24 U	NA	0.32 U	0.36 U	NA	0.47 J	0.19 U	NA	NA	0.49 U
Cadmium	mg/kg	1.4	0.77 J	0.024 J	0.12 J	NA	0.062 J	0.028 J	NA	NA	0.033 J
Chromium Total	mg/kg	7.8	4.4 J	3.6 J	30 J	NA	2	1.9	NA	NA	4
Cobalt	mg/kg	0.78	0.45 J	0.65 U	0.22 J	NA	1.8 U	0.15 J	NA	NA	0.39 U
Copper	mg/kg	40	16 J	28 J	39 J	NA	18	21	NA	NA	0.34 J
Cyanide (total)	mg/kg	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 UJ	NA	0.2 UJ	NA	0.2 U
Lead	mg/kg	21	24 J	4.7	27 J	NA	15	4.4	NA	NA	0.51 J
Manganese	mg/kg	9.3	7.6 J	0.4 J	32 J	NA	1.8 U	1	NA	NA	0.98 J
Mercury	mg/kg	0.132	0.0589 J	0.02 U	0.02 U	NA	0.019 UJ	NA	0.02 U	NA	0.018 U
Nickel	mg/kg	2.7	1.6 J	5.9 J	4 J	NA	1.8	1.6	NA	NA	0.084 J
Selenium	mg/kg	0.73	0.09 J	0.28 J	0.18 J	NA	0.57 J	0.23	NA	NA	0.2 U
Silver	mg/kg	0.53	0.14 J	0.18 J	0.71 U	NA	1.8 U	0.38 U	NA	NA	0.12 J
Thallium	mg/kg	0.6 U	0.12 U	0.65 U	0.71 UJ	NA	1.8 U	0.38 U	NA	NA	0.022 J
Vanadium	mg/kg	0.76	0.38 J	7.4 J	6.2 J	NA	2.7	2.3	NA	NA	2.2
Zinc	mg/kg	220	78	8 J	13 J	NA	2.8 J	3.5 UJ	NA	NA	0.98 U
Miscellaneous											
Interfacial Tension	dynes/cm	NA	270	12	17	NA	22	21	NA	NA	NA
Specific gravity	sg	NA	0.99	0.93	0.93	NA	0.88	0.89	NA	NA	NA
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	240,000	270,000	NA	NA	NA	NA	NA	NA	NA	NA
Viscosity	cp	NA	NA	40.9	110	NA	49.6	13.5	NA	NA	NA

Table D-1

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	20-145 09/25/01	20-145 06/18/02	20-FP6 09/25/01	20-FP6 02/20/02	20-FP6 06/19/02	20-FP6 03/27/03	20-FP10 09/25/01	20-FP10 02/22/02
VOC													
1,1,1,2-Tetrachloroethane	ug/L	{ID}	{ID}	96,000	1,100,000	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/L	{ID}	89	1,300,000 {(S)}	1,330,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	{ID}	78 {(X)}	77,000	2,970,000	1 UJ	1 U	1 UJ	1 U	1 U	1 U	1 UJ	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	32	170,000 {(S)}	170,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/L	{NA}	330 {(X)}	110,000	4,420,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	1.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	ug/L	{NA}	{NA}	18,000	1,900,000	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	{NA}	99 {(X)}	300,000 {(S)}	300,000	5 U	5 U	5 U	5 U	0.63 J	5 U	5 U	5 U
1,2,4-Trimethylbenzene	ug/L	56,000 {(S)}	17	56,000 {(S)}	55,890	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	{NA}	{ID}	1,200 {(S)}	1,230	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	ug/L	{ID}	5.7 {(X)}	15,000	4,200,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	ug/L	{NA}	13	160,000 {(S)}	156,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/L	2,500,000	360 {(X)}	59,000	8,520,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/L	550,000	230 {(X)}	36,000	2,800,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/L	{ID}	45	61,000 {(S)}	61,150	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/L	{ID}	28	41,000	111,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	ug/L	{NA}	17	74,000 {(S)}	73,800	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	ug/L	140,000,000	2,800 {(X)}	{NLV}	900,000,000	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	ug/L	{ID}	2,200	240,000,000 {(S)}	240,000,000	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone	ug/L	{NA}	{ID}	8,700,000	16,000,000	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	ug/L	{ID}	{ID}	20,000,000 {(S)}	20,000,000	50 U	50 U	50 U	50 U	50 UJ	50 U	50 U	50 U
Acetone	ug/L	15,000,000	1,700	1,000,000,000 {(D,S)}	1,000,000,000	25 U	25 U	25 U	25 U	3.1 J	25 U	25 U	25 U
Acrylonitrile	ug/L	6,400,000	2 {(M); 1.2}	190,000	75,000,000	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/L	68,000	200 {(X)}	35,000	1,750,000	1 U	1 U	0.65 J	1 U	0.5 J	1 U	6.1	2.2 U
Bromobenzene	ug/L	{ID}	{NA}	390,000	413,000	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/L	{ID}	{ID}	37,000	6,740,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/L	{ID}	{ID}	3,100,000 {(S)}	3,100,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/L	{ID}	35	9,000	14,500,000	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	ug/L	13,000	{ID}	550,000	1,190,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	ug/L	{ID}	45 {(X)}	2,400	793,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/L	160,000	25	470,000 {(S)}	472,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/L	110,000	1,100 {(X)}	5,700,000 {(S)}	5,740,000	1 U	1 U	1 UJ	1 U	1 U	1 U	1 UJ	1 U
Chloroform	ug/L	{ID}	350	180,000	7,920,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	ug/L	36,000	{ID}	45,000	6,340,000	1 U	1 U	1 UJ	1 U	1 U	1 U	1 UJ	1 U
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	1.9	1 U	1 U	1 U	0.62 J	1 U	1 U	1 U
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	ug/L	- -	- -	- -	- -	5 U	5 U	5 U	5 U	5 U	5 U	1.3 J	5 U
Dibromochloromethane	ug/L	{ID}	{ID}	110,000	2,600,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromomethane	ug/L	{ID}	{NA}	{ID}	11,000,000	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	20-145 09/25/01	20-145 06/18/02	20-FP6 09/25/01	20-FP6 02/20/02	20-FP6 06/19/02	20-FP6 03/27/03	20-FP10 09/25/01	20-FP10 02/22/02
Dichlorodifluoromethane	ug/L	{ID}	{ID}	300,000 {(S)}	300,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Diethyl ether	ug/L	650,000	{ID}	61,000,000 {(S)}	61,000,000	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/L	43,000	18	170,000 {(S)}	169,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	ug/L	29,000	28	56,000 {(S)}	56,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
m&p-Xylene	ug/L	- -	- -	- -	- -	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Methyl acetate	ug/L	- -	- -	- -	- -	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether	ug/L	{ID}	7,100 {(X)}	47,000,000 {(S)}	46,800,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	ug/L	{ID}	1,500 {(X)}	1,400,000	17,000,000	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
p-Isopropyltoluene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/L	140,000	80 {(X)}	310,000 {(S)}	310,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/L	{ID}	60 {(X)}	170,000	200,000	1 U	1 U	1 UJ	1 U	1 U	1 U	1 UJ	1 U
Tetrahydrofuran	ug/L	60,000	11,000 {(X)}	16,000,000	1,000,000,000	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/L	61,000	270	530,000 {(S)}	526,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/L	230,000	1,500 {(X)}	200,000	6,300,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/L	{ID}	200 {(X)}	4,900	1,100,000	1.1	1.2	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	ug/L	{ID}	{NA}	1,100,000 {(S)}	1,100,000	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	ug/L	33,000	13 {(X)}	13,000	2,760,000	3.2	1 U	2.3	0.57 J	1.2	1 U	1 U	1 U
SVOC													
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
2,4,5-Trichlorophenol	ug/L	{ID}	{NA}	{NLV}	1,200,000	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
2,4,6-Trichlorophenol	ug/L	{ID}	5	{NLV}	800,000	4.2 U	NA	4.4 U	NA	NA	NA	4.3 U	NA
2,4-Dichlorophenol	ug/L	{ID}	11	{NLV}	4,500,000	11 U	NA	11 U	NA	NA	NA	11 U	NA
2,4-Dimethylphenol	ug/L	{ID}	380	{NLV}	7,870,000	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	21 U	NA	22 U	NA	NA	NA	22 U	NA
2,4-Dinitrotoluene	ug/L	{ID}	{NA}	{NLV}	270,000	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
2-Chloronaphthalene	ug/L	{ID}	{NA}	{ID}	6,740	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
2-Chlorophenol	ug/L	{ID}	18	1,100,000	22,000,000	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	5.3 U	NA	1.04 J	NA	NA	NA	5.4 U	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	21 U	NA	22 U	NA	NA	NA	22 U	NA
2-Nitrophenol	ug/L	{ID}	{ID}	{NLV}	2,500,000	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
3&4-Methylphenol	ug/L	- -	- -	- -	- -	11 UJ	NA	11 UJ	NA	NA	NA	11 UJ	NA

Table D-1

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	20-145 09/25/01	20-145 06/18/02	20-FP6 09/25/01	20-FP6 02/20/02	20-FP6 06/19/02	20-FP6 03/27/03	20-FP10 09/25/01	20-FP10 02/22/02
3,3'-Dichlorobenzidine	ug/L	{ID}	0.3 {(M); 0.2}	{NLV}	3,110	**21 U**	NA	**22 U**	NA	NA	NA	**22 U**	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	21 U	NA	22 U	NA	NA	NA	22 U	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	21 U	NA	22 U	NA	NA	NA	22 U	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
4-Chloro-3-Methylphenol	ug/L	{ID}	7.4	{NLV}	3,900,000	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
4-Chloroaniline	ug/L	- -	- -	- -	- -	21 U	NA	22 U	NA	NA	NA	22 U	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	21 U	NA	22 U	NA	NA	NA	22 U	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	21 U	NA	22 U	NA	NA	NA	22 U	NA
Acenaphthene	ug/L	{ID}	38	4,200 {(S)}	4,240	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
Acenaphthylene	ug/L	{ID}	{ID}	3,900 {(S)}	3,930	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
Acetophenone	ug/L	{ID}	{ID}	6,100,000 {(S)}	6,100,000	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
Anthracene	ug/L	{ID}	{ID}	43 {(S)}	43.4	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
Atrazine	ug/L	{ID}	7.3	{NLV}	70,000	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
Benzo(a)anthracene	ug/L	{ID}	{ID}	{NLV}	9.4	1.1 U	NA	1.1 U	NA	NA	NA	1.1 U	NA
Benzo(a)pyrene	ug/L	{ID}	{ID}	{NLV}	1.62	**2.1 U**	NA	**2.2 U**	NA	NA	NA	**2.2 U**	NA
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	{ID}	1.5	**2.1 U**	NA	**2.2 U**	NA	NA	NA	**2.2 U**	NA
Benzo(g,h,i)perylene	ug/L	{ID}	{ID}	{NLV}	0.26	**5.3 U**	NA	**5.6 U**	NA	NA	NA	**5.4 U**	NA
Benzo(k)fluoranthene	ug/L	{ID}	{NA}	{NLV}	0.8	**5.3 U**	NA	**5.6 U**	NA	NA	NA	**5.4 U**	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	1 {(M); 0.79}	210,000	17,200,000	**1.1 U**	NA	**1.1 U**	NA	NA	NA	**1.1 U**	NA
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	25	{NLV}	340	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
Butylbenzylphthalate	ug/L	{ID}	67 {(X)}	{NLV}	2,690	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
Caprolactam	ug/L	{NA}	{NA}	{NLV}	5,250,000,000	11 U	NA	11 U	NA	NA	NA	11 U	NA
Carbazole	ug/L	{ID}	10 {(M); 4.0}	{NLV}	7,480	**11 U**	NA	**11 U**	NA	NA	NA	**11 U**	NA
Chrysene	ug/L	{ID}	{ID}	{ID}	1.6	**5.3 U**	NA	**5.6 U**	NA	NA	NA	**5.4 U**	NA
Dibenzo(a,h)anthracene	ug/L	{ID}	{ID}	{NLV}	2.49	2.1 U	NA	2.2 U	NA	NA	NA	2.2 U	NA
Dibenzofuran	ug/L	{ID}	4	10,000 {(S)}	10,000	**4.2 U**	NA	**4.4 U**	NA	NA	NA	**4.3 U**	NA
Diethylphthalate	ug/L	{NA}	110	{NLV}	1,080,000	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
Dimethylphthalate	ug/L	{NA}	{NA}	{NLV}	4,190,000	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
Di-n-Butylphthalate	ug/L	{NA}	9.7	{NLV}	11,200	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
Di-n-Octylphthalate	ug/L	{ID}	{ID}	{NLV}	3,000	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
Fluoranthene	ug/L	{ID}	1.6	210 {(S)}	206	**2.1 U**	NA	**2.2 U**	NA	NA	NA	**2.2 U**	NA
Fluorene	ug/L	{ID}	12	2,000 {(S)}	1,980	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
Hexachlorobenzene	ug/L	{ID}	0.2 {(M); 0.0003}	3,000	6,200	**1.1 U**	NA	**1.1 U**	NA	NA	NA	**1.1 U**	NA
Hexachlorobutadiene	ug/L	{ID}	0.053	3,200 {(S)}	3,230	**5.3 U**	NA	**5.6 U**	NA	NA	NA	**5.4 U**	NA
Hexachlorocyclopentadiene	ug/L	{ID}	{ID}	420	1,800	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{ID}	{NLV}	0.022	**2.1 U**	NA	**2.2 U**	NA	NA	NA	**2.2 U**	NA
Isophorone	ug/L	{ID}	1,300 {(X)}	{NLV}	12,000,000	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
Methylphenols, Total	ug/L	{NA}	30 {(M); 25}	{NLV}	28,000,000	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
Nitrobenzene	ug/L	{NA}	180 {(X)}	550,000	2,090,000	2.1 U	NA	2.2 U	NA	NA	NA	2.2 U	NA
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NA}	{NLV}	9,890,000	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA

Table D-1

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	20-145 09/25/01	20-145 06/18/02	20-FP6 09/25/01	20-FP6 02/20/02	20-FP6 06/19/02	20-FP6 03/27/03	20-FP10 09/25/01	20-FP10 02/22/02
N-Nitrosodiphenylamine	ug/L	{ID}	{NA}	{NLV}	35,100	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
Pentachlorophenol	ug/L	{ID}	{(G,X)}	{NLV}	1,850,000	21 U	NA	22 U	NA	NA	NA	22 U	NA
Phenanthrene	ug/L	{ID}	2 {(M); 1.4}	1,000 {(S)}	1,000	**5.3 U**	NA	**5.6 U**	NA	NA	NA	**5.4 U**	NA
Phenol	ug/L	{NA}	450	{NLV}	82,800,000	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
Pyrene	ug/L	{ID}	{ID}	140 {(S)}	135	5.3 U	NA	5.6 U	NA	NA	NA	5.4 U	NA
PCB													
Aroclor-1016	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	0.1 U	NA
Aroclor-1221	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	0.1 U	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	0.1 U	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	0.1 U	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	0.1 U	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	0.1 U	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA	NA	0.1 U	NA
Total PCBs	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	0.1 U	NA	0.1 U	NA	NA	NA	0.1 U	NA
PCB-Dissolved													
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	R	NA	0.11 U	NA	NA	NA	0.11 U	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	R	NA	0.11 U	NA	NA	NA	0.11 U	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	R	NA	0.11 U	NA	NA	NA	0.11 U	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	R	NA	0.11 U	NA	NA	NA	0.11 U	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	R	NA	0.11 U	NA	NA	NA	0.11 U	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	R	NA	0.11 U	NA	NA	NA	0.11 U	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	R	NA	0.11 U	NA	NA	NA	0.11 U	NA
Total PCBs (Dissolved)	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	R	NA	0.11 U	NA	NA	NA	0.11 U	NA
Inorganic													
Antimony	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	NA	1.2 U	NA	NA	NA	NA	NA	NA
Arsenic	ug/L	{ID}	10	{NLV}	{NA}	NA	1.6 U	NA	NA	NA	NA	NA	NA
Barium	ug/L	{ID}	1,308 {(G)}	{NLV}	{NA}	NA	69	NA	NA	NA	NA	NA	NA
Beryllium	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	NA	0.4 UJ	NA	NA	NA	NA	NA	NA
Cadmium	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	NA	0.51	NA	NA	NA	NA	NA	NA
Chromium Total	ug/L	- -	- -	- -	- -	NA	1.8	NA	NA	NA	NA	NA	NA
Cobalt	ug/L	{ID}	100	{NLV}	{NA}	NA	1.7	NA	NA	NA	NA	NA	NA
Copper	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	NA	**52 (GSI (2013))**	NA	NA	NA	NA	NA	NA
Cyanide (total)	ug/L	{ID}	5.2	{NLV}	{NA}	1.7 J	5 U	1.3 J	NA	NA	NA	**15 (GSI (2013))**	NA
Lead	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	NA	0.19 J	NA	NA	NA	NA	NA	NA
Manganese	ug/L	{ID}	4,857 {(G,X)}	{NLV}	{NA}	NA	420	NA	NA	NA	NA	NA	NA
Mercury	ug/L	{ID}	0.0013	56 {(S)}	56	**0.2 U**	**0.2 U**	**0.2 U**	NA	NA	NA	**0.2 U**	NA
Nickel	ug/L	{ID}	124 {(G)}	{NLV}	{NA}	NA	22	NA	NA	NA	NA	NA	NA
Selenium	ug/L	{ID}	- -	{NLV}	{NA}	NA	0.41 J	NA	NA	NA	NA	NA	NA
Silver	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	NA	**0.4 U**	NA	NA	NA	NA	NA	NA
Thallium	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	NA	0.2 U	NA	NA	NA	NA	NA	NA
Vanadium	ug/L	{ID}	27	{NLV}	{NA}	NA	0.8 U	NA	NA	NA	NA	NA	NA
Zinc	ug/L	{ID}	283 {(G)}	{NLV}	{NA}	NA	180 J	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved													
Antimony (Dissolved)	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	1.2 U	NA	1.2 U	NA	NA	NA	1.2 U	NA

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Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
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RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	20-145 09/25/01	20-145 06/18/02	20-FP6 09/25/01	20-FP6 02/20/02	20-FP6 06/19/02	20-FP6 03/27/03	20-FP10 09/25/01	20-FP10 02/22/02
Arsenic (Dissolved)	ug/L	{ID}	10	{NLV}	{NA}	1.7	NA	1 U	NA	NA	NA	**38 (GSI (2013))**	NA
Barium (Dissolved)	ug/L	{ID}	1,308 {(G)}	{NLV}	{NA}	120 J	NA	**1,800 J (GSI (2013))**	NA	NA	NA	560 J	NA
Beryllium (Dissolved)	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	0.4 U	NA	0.4 U	NA	NA	NA	0.4 U	NA
Cadmium (Dissolved)	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	0.2 U	NA	0.2 U	NA	NA	NA	0.2 U	NA
Chromium Total (Dissolved)	ug/L	- -	- -	- -	- -	0.6 U	NA	0.6 U	NA	NA	NA	0.6 U	NA
Cobalt (Dissolved)	ug/L	{ID}	100	{NLV}	{NA}	0.68	NA	0.37	NA	NA	NA	2.6	NA
Copper (Dissolved)	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	3.2	NA	2.1	NA	NA	NA	3.2	NA
Cyanide (dissolved)	ug/L	{ID}	5.2	{NLV}	{NA}	1.8 J	NA	5 U	NA	NA	NA	**13 (GSI (2013))**	NA
Lead (Dissolved)	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	0.4 U	NA	0.4 U	NA	NA	NA	0.4 U	NA
Manganese (Dissolved)	ug/L	{ID}	4,857 {(G,X)}	{NLV}	{NA}	890 J	NA	310 J	NA	NA	NA	180 J	NA
Mercury (Dissolved)	ug/L	- -	- -	- -	- -	0.2 U	NA	0.2 U	NA	NA	NA	0.2 U	NA
Nickel (Dissolved)	ug/L	{ID}	124 {(G)}	{NLV}	{NA}	10	NA	1.5	NA	NA	NA	11	NA
Selenium (Dissolved)	ug/L	{ID}	- -	{NLV}	{NA}	1.4 U	NA	1.4 U	NA	NA	NA	1.4 U	NA
Silver (Dissolved)	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	**0.4 UJ**	NA	**0.4 UJ**	NA	NA	NA	**0.4 UJ**	NA
Thallium (Dissolved)	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	0.2 U	NA	0.2 U	NA	NA	NA	0.2 U	NA
Vanadium (Dissolved)	ug/L	{ID}	27	{NLV}	{NA}	0.8 U	NA	0.8 U	NA	NA	NA	0.8 U	NA
Zinc (Dissolved)	ug/L	{ID}	283 {(G)}	{NLV}	{NA}	55	NA	53	NA	NA	NA	25	NA
Field Parameters													
Conductivity Field	mS/cm	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
pH Field	s.u.	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Field Parameters-Filtered													
Dissolved Oxygen, Field	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	20-FP10 11/02/06	20-FP10R 10/26/07	20-FP10R 09/15/08	20-FP10R 09/23/09	20-FP10R 10/14/10	20-FP10R 10/24/11	20-FP10R 11/07/12	20-FP11 09/25/01	20-FP11 06/19/02
VOC														
1,1,1,2-Tetrachloroethane	ug/L	{ID}	{ID}	96,000	1,100,000	NA	NA	NA	NA	1 U	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/L	{ID}	89	1,300,000 {(S)}	1,330,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	{ID}	78 {(X)}	77,000	2,970,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	32	170,000 {(S)}	170,000	30 U	30 U	30 U	30 U	NA	30 U	30 U	1 U	1 U
1,1,2-Trichloroethane	ug/L	{NA}	330 {(X)}	110,000	4,420,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	1 U	1 U	1 U	0.5	2	13	1 U	1 U	1 U
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	5 U	NA	NA	NA	NA
1,2,3-Trichloropropane	ug/L	{NA}	{NA}	18,000	1,900,000	NA	NA	NA	NA	1 U	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	1 U	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	{NA}	99 {(X)}	300,000 {(S)}	300,000	2 U	2 U	2 U	2 U	5 U	2 U	2 U	5 U	5 U
1,2,4-Trimethylbenzene	ug/L	56,000 {(S)}	17	56,000 {(S)}	55,890	NA	NA	NA	NA	1 U	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	{NA}	{ID}	1,200 {(S)}	1,230	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	ug/L	{ID}	5.7 {(X)}	15,000	4,200,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	ug/L	{NA}	13	160,000 {(S)}	156,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/L	2,500,000	360 {(X)}	59,000	8,520,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/L	550,000	230 {(X)}	36,000	2,800,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/L	{ID}	45	61,000 {(S)}	61,150	NA	NA	NA	NA	1 U	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/L	{ID}	28	41,000	111,000	1 U	1 U	1 U	0.3	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	ug/L	{NA}	17	74,000 {(S)}	73,800	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	ug/L	140,000,000	2,800 {(X)}	{NLV}	900,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	ug/L	{ID}	2,200	240,000,000 {(S)}	240,000,000	20 U	20 U	20 U	20 U	30 U	20 U	20 U	25 U	25 U
2-Hexanone	ug/L	{NA}	{ID}	8,700,000	16,000,000	50 U	50 U	50 UJ	50 U	50 U	50 U	50 U	50 U	50 U
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	NA	NA	NA	NA	5 U	NA	NA	NA	NA
4-Methyl-2-pentanone	ug/L	{ID}	{ID}	20,000,000 {(S)}	20,000,000	10 U	10 U	10 U	10 U	50 U	10 U	10 U	50 U	50 U
Acetone	ug/L	15,000,000	1,700	1,000,000,000 {(D,S)}	1,000,000,000	20 U	20 U	20 U	2	50 U	20 U	20 U	25 U	2.1 J
Acrylonitrile	ug/L	6,400,000	2 {(M); 1.2}	190,000	75,000,000	NA	NA	NA	NA	2 U	NA	NA	NA	NA
Benzene	ug/L	68,000	200 {(X)}	35,000	1,750,000	0.3 J	0.2 J	1 U	3	6	18	9	0.69 J	1 U
Bromobenzene	ug/L	{ID}	{NA}	390,000	413,000	NA	NA	NA	NA	1 U	NA	NA	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	1 U	NA	NA	NA	NA
Bromodichloromethane	ug/L	{ID}	{ID}	37,000	6,740,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/L	{ID}	{ID}	3,100,000 {(S)}	3,100,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/L	{ID}	35	9,000	14,500,000	2 U	2 U	2 U	2 U	5 U	2 U	2 U	1 U	1 U
Carbon Disulfide	ug/L	13,000	{ID}	550,000	1,190,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	ug/L	{ID}	45 {(X)}	2,400	793,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/L	160,000	25	470,000 {(S)}	472,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/L	110,000	1,100 {(X)}	5,700,000 {(S)}	5,740,000	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 UJ	1 U
Chloroform	ug/L	{ID}	350	180,000	7,920,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	ug/L	36,000	{ID}	45,000	6,340,000	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 UJ	1 U
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	3	2	2	3	3	8	4	1 U	1 U
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	ug/L	- -	- -	- -	- -	1 U	0.4 J	1 UJ	1 U	NA	1	1 U	5 U	5 U
Dibromochloromethane	ug/L	{ID}	{ID}	110,000	2,600,000	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U
Dibromomethane	ug/L	{ID}	{NA}	{ID}	11,000,000	NA	NA	NA	NA	5 U	NA	NA	NA	NA

Table D-1

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	20-FP10 11/02/06	20-FP10R 10/26/07	20-FP10R 09/15/08	20-FP10R 09/23/09	20-FP10R 10/14/10	20-FP10R 10/24/11	20-FP10R 11/07/12	20-FP11 09/25/01	20-FP11 06/19/02
Dichlorodifluoromethane	ug/L	{ID}	{ID}	300,000 {(S)}	300,000	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U
Diethyl ether	ug/L	650,000	{ID}	61,000,000 {(S)}	61,000,000	NA	NA	NA	NA	10 U	NA	NA	NA	NA
Ethylbenzene	ug/L	43,000	18	170,000 {(S)}	169,000	1 U	1 U	1 U	1 U	1 U	1 U	1	1 U	1 U
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	NA	NA	NA	NA	5 U	NA	NA	NA	NA
Iodomethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	1 U	NA	NA	NA	NA
Isopropylbenzene	ug/L	29,000	28	56,000 {(S)}	56,000	1 U	1 U	1 U	1 U	5 U	1 U	1 U	5 U	5 U
m&p-Xylene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U
Methyl acetate	ug/L	- -	- -	- -	- -	10 U	10 U	10 U	10 U	NA	10 U	10 U	5 U	5 U
Methyl tert-butyl ether	ug/L	{ID}	7,100 {(X)}	47,000,000 {(S)}	46,800,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	ug/L	- -	- -	- -	- -	20 U	20 U	20 U	0.2	NA	20 U	20 U	1 U	1 U
Methylene Chloride	ug/L	{ID}	1,500 {(X)}	1,400,000	17,000,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	NA	NA	NA	NA	5 U	5 U	5 U	NA	NA
n-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	1 U	NA	NA	NA	NA
n-Propylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	1 U	1 U	1 U	NA	NA
o-Xylene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
p-Isopropyltoluene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	5 U	NA	NA	NA	NA
sec-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	1 U	NA	NA	NA	NA
Styrene	ug/L	140,000	80 {(X)}	310,000 {(S)}	310,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	1 U	NA	NA	NA	NA
Tetrachloroethene	ug/L	{ID}	60 {(X)}	170,000	200,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ
Tetrahydrofuran	ug/L	60,000	11,000 {(X)}	16,000,000	1,000,000,000	NA	NA	NA	NA	90 U	NA	NA	NA	NA
Toluene	ug/L	61,000	270	530,000 {(S)}	526,000	1 U	1 U	1 U	0.2	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/L	230,000	1,500 {(X)}	200,000	6,300,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	1 U	NA	NA	NA	NA
Trichloroethene	ug/L	{ID}	200 {(X)}	4,900	1,100,000	1 U	2	7	8	2	2	1 U	1 U	1 U
Trichlorofluoromethane	ug/L	{ID}	{NA}	1,100,000 {(S)}	1,100,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	ug/L	33,000	13 {(X)}	13,000	2,760,000	1 U	1 U	0.6 J	2	2	2	1 U	1 U	1 U
SVOC														
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	5 U	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	5 U	NA
2,4,5-Trichlorophenol	ug/L	{ID}	{NA}	{NLV}	1,200,000	NA	NA	NA	NA	NA	NA	NA	5 U	NA
2,4,6-Trichlorophenol	ug/L	{ID}	5	{NLV}	800,000	NA	NA	NA	NA	NA	NA	NA	4 U	NA
2,4-Dichlorophenol	ug/L	{ID}	11	{NLV}	4,500,000	NA	NA	NA	NA	NA	NA	NA	10 U	NA
2,4-Dimethylphenol	ug/L	{ID}	380	{NLV}	7,870,000	NA	NA	NA	NA	NA	NA	NA	5 U	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	20 U	NA
2,4-Dinitrotoluene	ug/L	{ID}	{NA}	{NLV}	270,000	NA	NA	NA	NA	NA	NA	NA	5 U	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	5 U	NA
2-Chloronaphthalene	ug/L	{ID}	{NA}	{ID}	6,740	NA	NA	NA	NA	NA	NA	NA	5 U	NA
2-Chlorophenol	ug/L	{ID}	18	1,100,000	22,000,000	NA	NA	NA	NA	NA	NA	NA	5 U	NA
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	NA	NA	NA	NA	NA	NA	NA	5 U	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	5 U	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	20 U	NA
2-Nitrophenol	ug/L	{ID}	{ID}	{NLV}	2,500,000	NA	NA	NA	NA	NA	NA	NA	5 U	NA
3&4-Methylphenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	10 UJ	NA

Table D-1

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	20-FP10 11/02/06	20-FP10R 10/26/07	20-FP10R 09/15/08	20-FP10R 09/23/09	20-FP10R 10/14/10	20-FP10R 10/24/11	20-FP10R 11/07/12	20-FP11 09/25/01	20-FP11 06/19/02
3,3'-Dichlorobenzidine	ug/L	{ID}	0.3 {(M); 0.2}	{NLV}	3,110	NA	NA	NA	NA	NA	NA	NA	**20 U**	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	20 U	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	20 U	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	5 U	NA
4-Chloro-3-Methylphenol	ug/L	{ID}	7.4	{NLV}	3,900,000	NA	NA	NA	NA	NA	NA	NA	5 U	NA
4-Chloroaniline	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	20 U	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	5 U	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	20 U	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	20 U	NA
Acenaphthene	ug/L	{ID}	38	4,200 {(S)}	4,240	NA	NA	NA	NA	NA	NA	NA	5 U	NA
Acenaphthylene	ug/L	{ID}	{ID}	3,900 {(S)}	3,930	NA	NA	NA	NA	NA	NA	NA	5 U	NA
Acetophenone	ug/L	{ID}	{ID}	6,100,000 {(S)}	6,100,000	NA	NA	NA	NA	NA	NA	NA	5 U	NA
Anthracene	ug/L	{ID}	{ID}	43 {(S)}	43.4	NA	NA	NA	NA	NA	NA	NA	5 U	NA
Atrazine	ug/L	{ID}	7.3	{NLV}	70,000	NA	NA	NA	NA	NA	NA	NA	5 U	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	5 U	NA
Benzo(a)anthracene	ug/L	{ID}	{ID}	{NLV}	9.4	NA	NA	NA	NA	NA	NA	NA	1 U	NA
Benzo(a)pyrene	ug/L	{ID}	{ID}	{NLV}	1.62	NA	NA	NA	NA	NA	NA	NA	**2 U**	NA
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	{ID}	1.5	NA	NA	NA	NA	NA	NA	NA	**2 U**	NA
Benzo(g,h,i)perylene	ug/L	{ID}	{ID}	{NLV}	0.26	NA	NA	NA	NA	NA	NA	NA	**5 U**	NA
Benzo(k)fluoranthene	ug/L	{ID}	{NA}	{NLV}	0.8	NA	NA	NA	NA	NA	NA	NA	**5 U**	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	5 U	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	1 {(M); 0.79}	210,000	17,200,000	NA	NA	NA	NA	NA	NA	NA	1 U	NA
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	25	{NLV}	340	NA	NA	NA	NA	NA	NA	NA	5 U	NA
Butylbenzylphthalate	ug/L	{ID}	67 {(X)}	{NLV}	2,690	NA	NA	NA	NA	NA	NA	NA	5 U	NA
Caprolactam	ug/L	{NA}	{NA}	{NLV}	5,250,000,000	NA	NA	NA	NA	NA	NA	NA	10 U	NA
Carbazole	ug/L	{ID}	10 {(M); 4.0}	{NLV}	7,480	NA	NA	NA	NA	NA	NA	NA	10 U	NA
Chrysene	ug/L	{ID}	{ID}	{ID}	1.6	NA	NA	NA	NA	NA	NA	NA	**5 U**	NA
Dibenzo(a,h)anthracene	ug/L	{ID}	{ID}	{NLV}	2.49	NA	NA	NA	NA	NA	NA	NA	2 U	NA
Dibenzofuran	ug/L	{ID}	4	10,000 {(S)}	10,000	NA	NA	NA	NA	NA	NA	NA	4 U	NA
Diethylphthalate	ug/L	{NA}	110	{NLV}	1,080,000	NA	NA	NA	NA	NA	NA	NA	5 U	NA
Dimethylphthalate	ug/L	{NA}	{NA}	{NLV}	4,190,000	NA	NA	NA	NA	NA	NA	NA	5 U	NA
Di-n-Butylphthalate	ug/L	{NA}	9.7	{NLV}	11,200	NA	NA	NA	NA	NA	NA	NA	5 U	NA
Di-n-Octylphthalate	ug/L	{ID}	{ID}	{NLV}	3,000	NA	NA	NA	NA	NA	NA	NA	5 U	NA
Fluoranthene	ug/L	{ID}	1.6	210 {(S)}	206	NA	NA	NA	NA	NA	NA	NA	**2 U**	NA
Fluorene	ug/L	{ID}	12	2,000 {(S)}	1,980	NA	NA	NA	NA	NA	NA	NA	5 U	NA
Hexachlorobenzene	ug/L	{ID}	0.2 {(M); 0.0003}	3,000	6,200	NA	NA	NA	NA	NA	NA	NA	**1 U**	NA
Hexachlorobutadiene	ug/L	{ID}	0.053	3,200 {(S)}	3,230	NA	NA	NA	NA	NA	NA	NA	**5 U**	NA
Hexachlorocyclopentadiene	ug/L	{ID}	{ID}	420	1,800	NA	NA	NA	NA	NA	NA	NA	5 U	NA
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	NA	NA	NA	NA	NA	NA	NA	5 U	NA
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{ID}	{NLV}	0.022	NA	NA	NA	NA	NA	NA	NA	**2 U**	NA
Isophorone	ug/L	{ID}	1,300 {(X)}	{NLV}	12,000,000	NA	NA	NA	NA	NA	NA	NA	5 U	NA
Methylphenols, Total	ug/L	{NA}	30 {(M); 25}	{NLV}	28,000,000	NA	NA	NA	NA	NA	NA	NA	5 U	NA
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	NA	NA	NA	NA	NA	NA	NA	5 U	NA
Nitrobenzene	ug/L	{NA}	180 {(X)}	550,000	2,090,000	NA	NA	NA	NA	NA	NA	NA	2 U	NA
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NA}	{NLV}	9,890,000	NA	NA	NA	NA	NA	NA	NA	5 U	NA

Table D-1

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	20-FP10 11/02/06	20-FP10R 10/26/07	20-FP10R 09/15/08	20-FP10R 09/23/09	20-FP10R 10/14/10	20-FP10R 10/24/11	20-FP10R 11/07/12	20-FP11 09/25/01	20-FP11 06/19/02
N-Nitrosodiphenylamine	ug/L	{ID}	{NA}	{NLV}	35,100	NA	NA	NA	NA	NA	NA	NA	5 U	NA
Pentachlorophenol	ug/L	{ID}	{(G,X)}	{NLV}	1,850,000	NA	NA	NA	NA	NA	NA	NA	20 U	NA
Phenanthrene	ug/L	{ID}	2 {(M); 1.4}	1,000 {(S)}	1,000	NA	NA	NA	NA	NA	NA	NA	**5 U**	NA
Phenol	ug/L	{NA}	450	{NLV}	82,800,000	NA	NA	NA	NA	NA	NA	NA	5 U	NA
Pyrene	ug/L	{ID}	{ID}	140 {(S)}	135	NA	NA	NA	NA	NA	NA	NA	5 U	NA
PCB														
Aroclor-1016	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA
Aroclor-1221	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA
Total PCBs	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA
PCB-Dissolved														
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA
Total PCBs (Dissolved)	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA
Inorganic														
Antimony	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	ug/L	{ID}	10	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/L	{ID}	1,308 {(G)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/L	{ID}	100	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	ug/L	{ID}	5.2	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	3.5 J	NA
Lead	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/L	{ID}	4,857 {(G,X)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/L	{ID}	0.0013	56 {(S)}	56	NA	NA	NA	NA	NA	NA	NA	**0.2 U**	NA
Nickel	ug/L	{ID}	124 {(G)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/L	{ID}	- -	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/L	{ID}	27	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/L	{ID}	283 {(G)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved														
Antimony (Dissolved)	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	1.2 U	NA

Table D-1

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	20-FP10 11/02/06	20-FP10R 10/26/07	20-FP10R 09/15/08	20-FP10R 09/23/09	20-FP10R 10/14/10	20-FP10R 10/24/11	20-FP10R 11/07/12	20-FP11 09/25/01	20-FP11 06/19/02
Arsenic (Dissolved)	ug/L	{ID}	10	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	4.5	NA
Barium (Dissolved)	ug/L	{ID}	1,308 {(G)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	180 J	NA
Beryllium (Dissolved)	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	0.4 U	NA
Cadmium (Dissolved)	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	0.2 U	NA
Chromium Total (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.71	NA
Cobalt (Dissolved)	ug/L	{ID}	100	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	1.9	NA
Copper (Dissolved)	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	8.8	NA
Cyanide (dissolved)	ug/L	{ID}	5.2	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	2.4 J	NA
Lead (Dissolved)	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	0.4 U	NA
Manganese (Dissolved)	ug/L	{ID}	4,857 {(G,X)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	310 J	NA
Mercury (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.2 U	NA
Nickel (Dissolved)	ug/L	{ID}	124 {(G)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	7.3	NA
Selenium (Dissolved)	ug/L	{ID}	- -	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	5.8	NA
Silver (Dissolved)	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	**0.4 UJ**	NA
Thallium (Dissolved)	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	0.2 U	NA
Vanadium (Dissolved)	ug/L	{ID}	27	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	0.8 U	NA
Zinc (Dissolved)	ug/L	{ID}	283 {(G)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	20	NA
Field Parameters														
Conductivity Field	mS/cm	- -	- -	- -	- -	NA	NA	2.962	6.328	NA	NA	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	- -	NA	NA	105.8 -	102.5 -	NA	NA	NA	NA	NA
pH Field	s.u.	- -	- -	- -	- -	NA	NA	7.38	7.67	NA	NA	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	- -	NA	NA	65	70	NA	NA	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	- -	NA	NA	18.16	17.27	NA	NA	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	- -	NA	NA	9.63	7.78	NA	NA	NA	NA	NA
Field Parameters-Filtered														
Dissolved Oxygen, Field	ug/L	- -	- -	- -	- -	NA	NA	330	160	NA	NA	NA	NA	NA

Table D-1

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-10-11-ULF 10/01/01	RFI-10-11 10/01/01	RFI-10-11 10/03/01	RFI-10-11 06/21/02	RFI-10-11 03/26/03	RFI-10-11 10/08/04	RFI-10-11 06/05/13
VOC												
1,1,1,2-Tetrachloroethane	ug/L	{ID}	{ID}	96,000	1,100,000	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/L	{ID}	89	1,300,000 {(S)}	1,330,000	NA	0.77 J	NA	1 UJ	NA	0.6 J	NA
1,1,2,2-Tetrachloroethane	ug/L	{ID}	78 {(X)}	77,000	2,970,000	NA	1 UJ	NA	1 U	NA	1 U	NA
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	32	170,000 {(S)}	170,000	NA	1 U	NA	1 U	NA	30 U	NA
1,1,2-Trichloroethane	ug/L	{NA}	330 {(X)}	110,000	4,420,000	NA	1 U	NA	1 U	NA	1 U	NA
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	NA	1 U	NA	1 U	NA	1 U	NA
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	NA	1 U	NA	1 U	NA	1 U	NA
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	ug/L	{NA}	{NA}	18,000	1,900,000	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	{NA}	99 {(X)}	300,000 {(S)}	300,000	NA	5 U	NA	5 U	NA	2 U	NA
1,2,4-Trimethylbenzene	ug/L	56,000 {(S)}	17	56,000 {(S)}	55,890	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	{NA}	{ID}	1,200 {(S)}	1,230	NA	1 U	NA	1 UJ	NA	1 U	NA
1,2-Dibromoethane	ug/L	{ID}	5.7 {(X)}	15,000	4,200,000	NA	1 U	NA	1 U	NA	1 U	NA
1,2-Dichlorobenzene	ug/L	{NA}	13	160,000 {(S)}	156,000	NA	1 U	NA	1 U	NA	1 U	NA
1,2-Dichloroethane	ug/L	2,500,000	360 {(X)}	59,000	8,520,000	NA	1 U	NA	1 U	NA	1 U	NA
1,2-Dichloropropane	ug/L	550,000	230 {(X)}	36,000	2,800,000	NA	1 U	NA	1 U	NA	1 U	NA
1,3,5-Trimethylbenzene	ug/L	{ID}	45	61,000 {(S)}	61,150	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/L	{ID}	28	41,000	111,000	NA	1 U	NA	1 U	NA	1 U	NA
1,4-Dichlorobenzene	ug/L	{NA}	17	74,000 {(S)}	73,800	NA	1 U	NA	1 U	NA	1 U	NA
1,4-Dioxane	ug/L	140,000,000	2,800 {(X)}	{NLV}	900,000,000	NA	NA	NA	NA	NA	NA	NA
2-Butanone	ug/L	{ID}	2,200	240,000,000 {(S)}	240,000,000	NA	25 U	NA	2.4 J	NA	30 U	NA
2-Hexanone	ug/L	{NA}	{ID}	8,700,000	16,000,000	NA	50 U	NA	50 U	NA	50 U	NA
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	ug/L	{ID}	{ID}	20,000,000 {(S)}	20,000,000	NA	50 U	NA	50 U	NA	1 U	NA
Acetone	ug/L	15,000,000	1,700	1,000,000,000 {(D,S)}	1,000,000,000	NA	25 U	NA	25 U	NA	30 U	NA
Acrylonitrile	ug/L	6,400,000	2 {(M); 1.2}	190,000	75,000,000	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/L	68,000	200 {(X)}	35,000	1,750,000	NA	1 U	NA	1 U	NA	1 U	NA
Bromobenzene	ug/L	{ID}	{NA}	390,000	413,000	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/L	{ID}	{ID}	37,000	6,740,000	NA	1 U	NA	1 U	NA	1 U	NA
Bromoform	ug/L	{ID}	{ID}	3,100,000 {(S)}	3,100,000	NA	1 U	NA	1 UJ	NA	1 UJ	NA
Bromomethane	ug/L	{ID}	35	9,000	14,500,000	NA	1 U	NA	1 U	NA	2 UJ	NA
Carbon Disulfide	ug/L	13,000	{ID}	550,000	1,190,000	NA	5 U	NA	5 U	NA	5 UJ	NA
Carbon Tetrachloride	ug/L	{ID}	45 {(X)}	2,400	793,000	NA	1 U	NA	1 UJ	NA	1 U	NA
Chlorobenzene	ug/L	160,000	25	470,000 {(S)}	472,000	NA	1 U	NA	1 U	NA	1 U	NA
Chloroethane	ug/L	110,000	1,100 {(X)}	5,700,000 {(S)}	5,740,000	NA	1 U	NA	1 U	NA	1 UJ	NA
Chloroform	ug/L	{ID}	350	180,000	7,920,000	NA	1 U	NA	1 U	NA	1 U	NA
Chloromethane	ug/L	36,000	{ID}	45,000	6,340,000	NA	1 U	NA	1 U	NA	1 U	NA
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	NA	1 U	NA	1 U	NA	1 U	NA
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	NA	1 U	NA	1 U	NA	1 U	NA
Cyclohexane	ug/L	- -	- -	- -	- -	NA	5 U	NA	5 U	NA	1 U	NA
Dibromochloromethane	ug/L	{ID}	{ID}	110,000	2,600,000	NA	1 U	NA	1 UJ	NA	1 U	NA
Dibromomethane	ug/L	{ID}	{NA}	{ID}	11,000,000	NA	NA	NA	NA	NA	NA	NA

Table D-1

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-10-11-ULF 10/01/01	RFI-10-11 10/01/01	RFI-10-11 10/03/01	RFI-10-11 06/21/02	RFI-10-11 03/26/03	RFI-10-11 10/08/04	RFI-10-11 06/05/13
Dichlorodifluoromethane	ug/L	{ID}	{ID}	300,000 {(S)}	300,000	NA	1 U	NA	1 U	NA	1 UJ	NA
Diethyl ether	ug/L	650,000	{ID}	61,000,000 {(S)}	61,000,000	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/L	43,000	18	170,000 {(S)}	169,000	NA	1 U	NA	1 U	NA	1 U	NA
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	NA	NA	NA	NA	NA	NA	NA
Iodomethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	ug/L	29,000	28	56,000 {(S)}	56,000	NA	5 U	NA	5 U	NA	1 U	NA
m&p-Xylene	ug/L	- -	- -	- -	- -	NA	2 U	NA	2 U	NA	1 U	NA
Methyl acetate	ug/L	- -	- -	- -	- -	NA	5 U	NA	5 U	NA	10 U	NA
Methyl tert-butyl ether	ug/L	{ID}	7,100 {(X)}	47,000,000 {(S)}	46,800,000	NA	5 U	NA	5 U	NA	5 U	NA
Methylcyclohexane	ug/L	- -	- -	- -	- -	NA	1 U	NA	1 U	NA	20 U	NA
Methylene Chloride	ug/L	{ID}	1,500 {(X)}	1,400,000	17,000,000	NA	5 U	NA	5 U	NA	5 U	NA
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	ug/L	- -	- -	- -	- -	NA	1 U	NA	1 U	NA	1 U	NA
p-Isopropyltoluene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/L	140,000	80 {(X)}	310,000 {(S)}	310,000	NA	1 U	NA	1 U	NA	1 U	NA
tert-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/L	{ID}	60 {(X)}	170,000	200,000	NA	1 U	NA	1 U	NA	1 U	NA
Tetrahydrofuran	ug/L	60,000	11,000 {(X)}	16,000,000	1,000,000,000	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/L	61,000	270	530,000 {(S)}	526,000	NA	1 U	NA	1 U	NA	1 U	NA
trans-1,2-Dichloroethene	ug/L	230,000	1,500 {(X)}	200,000	6,300,000	NA	1 U	NA	1 U	NA	1 U	NA
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	NA	1 U	NA	1 U	NA	1 U	NA
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/L	{ID}	200 {(X)}	4,900	1,100,000	NA	1 U	NA	1 U	NA	1 U	NA
Trichlorofluoromethane	ug/L	{ID}	{NA}	1,100,000 {(S)}	1,100,000	NA	1 U	NA	1 U	NA	1 U	NA
Vinyl Chloride	ug/L	33,000	13 {(X)}	13,000	2,760,000	NA	1 U	NA	1 U	NA	1 U	NA
SVOC												
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	{ID}	{NA}	{NLV}	1,200,000	NA	5 U	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	{ID}	5	{NLV}	800,000	NA	4 U	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	{ID}	11	{NLV}	4,500,000	NA	10 U	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	{ID}	380	{NLV}	7,870,000	NA	5 U	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	{ID}	{NA}	{NLV}	270,000	NA	5 U	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	{ID}	{NA}	{ID}	6,740	NA	5 U	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	{ID}	18	1,100,000	22,000,000	NA	5 U	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	NA	5 U	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	{ID}	{ID}	{NLV}	2,500,000	NA	5 U	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	- -	- -	- -	- -	NA	10 UJ	NA	NA	NA	NA	NA

Table D-1

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-10-11-ULF 10/01/01	RFI-10-11 10/01/01	RFI-10-11 10/03/01	RFI-10-11 06/21/02	RFI-10-11 03/26/03	RFI-10-11 10/08/04	RFI-10-11 06/05/13
3,3'-Dichlorobenzidine	ug/L	{ID}	0.3 {(M); 0.2}	{NLV}	3,110	NA	**20 U**	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	ug/L	{ID}	7.4	{NLV}	3,900,000	NA	5 U	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	NA	NA	NA
Acenaphthene	ug/L	{ID}	38	4,200 {(S)}	4,240	NA	5 U	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	{ID}	{ID}	3,900 {(S)}	3,930	NA	5 U	NA	NA	NA	NA	NA
Acetophenone	ug/L	{ID}	{ID}	6,100,000 {(S)}	6,100,000	NA	5 U	NA	NA	NA	NA	NA
Anthracene	ug/L	{ID}	{ID}	43 {(S)}	43.4	NA	5 U	NA	NA	NA	NA	NA
Atrazine	ug/L	{ID}	7.3	{NLV}	70,000	NA	5 U	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	{ID}	{ID}	{NLV}	9.4	NA	1 U	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	{ID}	{ID}	{NLV}	1.62	NA	**2 U**	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	{ID}	1.5	NA	**2 U**	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	{ID}	{ID}	{NLV}	0.26	NA	**5 U**	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	{ID}	{NA}	{NLV}	0.8	NA	**5 U**	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	1 {(M); 0.79}	210,000	17,200,000	NA	1 U	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	25	{NLV}	340	NA	5 U	NA	NA	NA	NA	NA
Butylbenzylphthalate	ug/L	{ID}	67 {(X)}	{NLV}	2,690	NA	5 U	NA	NA	NA	NA	NA
Caprolactam	ug/L	{NA}	{NA}	{NLV}	5,250,000,000	NA	10 U	NA	NA	NA	NA	NA
Carbazole	ug/L	{ID}	10 {(M); 4.0}	{NLV}	7,480	NA	10 U	NA	NA	NA	NA	NA
Chrysene	ug/L	{ID}	{ID}	{ID}	1.6	NA	**5 U**	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/L	{ID}	{ID}	{NLV}	2.49	NA	2 U	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	{ID}	4	10,000 {(S)}	10,000	NA	4 U	NA	NA	NA	NA	NA
Diethylphthalate	ug/L	{NA}	110	{NLV}	1,080,000	NA	5 U	NA	NA	NA	NA	NA
Dimethylphthalate	ug/L	{NA}	{NA}	{NLV}	4,190,000	NA	5 U	NA	NA	NA	NA	NA
Di-n-Butylphthalate	ug/L	{NA}	9.7	{NLV}	11,200	NA	5 U	NA	NA	NA	NA	NA
Di-n-Octylphthalate	ug/L	{ID}	{ID}	{NLV}	3,000	NA	5 U	NA	NA	NA	NA	NA
Fluoranthene	ug/L	{ID}	1.6	210 {(S)}	206	NA	**2 U**	NA	NA	NA	NA	NA
Fluorene	ug/L	{ID}	12	2,000 {(S)}	1,980	NA	5 U	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/L	{ID}	0.2 {(M); 0.0003}	3,000	6,200	NA	**1 U**	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	{ID}	0.053	3,200 {(S)}	3,230	NA	**5 U**	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	{ID}	{ID}	420	1,800	NA	5 U	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	NA	5 U	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{ID}	{NLV}	0.022	NA	**2 U**	NA	NA	NA	NA	NA
Isophorone	ug/L	{ID}	1,300 {(X)}	{NLV}	12,000,000	NA	5 U	NA	NA	NA	NA	NA
Methylphenols, Total	ug/L	{NA}	30 {(M); 25}	{NLV}	28,000,000	NA	5 U	NA	NA	NA	NA	NA
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	NA	5 U	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	{NA}	180 {(X)}	550,000	2,090,000	NA	2 U	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NA}	{NLV}	9,890,000	NA	5 U	NA	NA	NA	NA	NA

Table D-1

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-10-11-ULF 10/01/01	RFI-10-11 10/01/01	RFI-10-11 10/03/01	RFI-10-11 06/21/02	RFI-10-11 03/26/03	RFI-10-11 10/08/04	RFI-10-11 06/05/13
N-Nitrosodiphenylamine	ug/L	{ID}	{NA}	{NLV}	35,100	NA	5 U	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	{ID}	{(G,X)}	{NLV}	1,850,000	NA	20 U	NA	NA	NA	NA	NA
Phenanthrene	ug/L	{ID}	2 {(M); 1.4}	1,000 {(S)}	1,000	NA	**5 U**	NA	NA	NA	NA	NA
Phenol	ug/L	{NA}	450	{NLV}	82,800,000	NA	5 U	NA	NA	NA	NA	NA
Pyrene	ug/L	{ID}	{ID}	140 {(S)}	135	NA	5 U	NA	NA	NA	NA	NA
PCB												
Aroclor-1016	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1221	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA	NA	NA
Total PCBs	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	NA	0.1 U	NA	NA	NA	NA	NA
PCB-Dissolved												
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA	NA	NA
Total PCBs (Dissolved)	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	NA	0.1 U	NA	NA	NA	NA	NA
Inorganic												
Antimony	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	1.3 U	1.2 U	NA	NA	1.2 U	NA	NA
Arsenic	ug/L	{ID}	10	{NLV}	{NA}	1.5 J	1.6 U	NA	NA	1 U	NA	NA
Barium	ug/L	{ID}	1,308 {(G)}	{NLV}	{NA}	65 J	35 J	NA	NA	70	NA	NA
Beryllium	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	0.4 U	0.4 U	NA	NA	0.4 U	NA	NA
Cadmium	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	0.85 J	0.26 J	NA	NA	0.51	NA	NA
Chromium Total	ug/L	- -	- -	- -	- -	4 J	3.9	NA	NA	3.1	NA	NA
Cobalt	ug/L	{ID}	100	{NLV}	{NA}	2 J	0.67 J	NA	NA	1.4	NA	NA
Copper	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	14 J	2.5 J	NA	NA	2.6	NA	NA
Cyanide (total)	ug/L	{ID}	5.2	{NLV}	{NA}	**27 (GSI (2013))**	**14 (GSI (2013))**	**27 (GSI (2013))**	NA	**34 (GSI (2013))**	NA	5
Lead	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	1.1 J	0.46 J	NA	NA	0.15 J	NA	NA
Manganese	ug/L	{ID}	4,857 {(G,X)}	{NLV}	{NA}	710 J	220 J	NA	NA	330	NA	NA
Mercury	ug/L	{ID}	0.0013	56 {(S)}	56	**0.2 U**	**0.2 U**	NA	NA	**0.2 U**	NA	NA
Nickel	ug/L	{ID}	124 {(G)}	{NLV}	{NA}	19 J	8.3 J	NA	NA	20	NA	NA
Selenium	ug/L	{ID}	- -	{NLV}	{NA}	1.4 U	2.2 J	NA	NA	2.9	NA	NA
Silver	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	**1.9 J (GSI (2013))**	**0.4 U**	NA	NA	**0.4 U**	NA	NA
Thallium	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	0.046 J	0.2 U	NA	NA	0.2 U	NA	NA
Vanadium	ug/L	{ID}	27	{NLV}	{NA}	0.25 J	0.27 J	NA	NA	0.8 U	NA	NA
Zinc	ug/L	{ID}	283 {(G)}	{NLV}	{NA}	10 J	9.1 J	NA	NA	8.9	NA	NA
Inorganic-Dissolved												
Antimony (Dissolved)	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	NA	1.2 U	NA	NA	NA	NA	NA

Table D-1

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-10-11-ULF 10/01/01	RFI-10-11 10/01/01	RFI-10-11 10/03/01	RFI-10-11 06/21/02	RFI-10-11 03/26/03	RFI-10-11 10/08/04	RFI-10-11 06/05/13
Arsenic (Dissolved)	ug/L	{ID}	10	{NLV}	{NA}	NA	1 U	NA	NA	NA	NA	NA
Barium (Dissolved)	ug/L	{ID}	1,308 {(G)}	{NLV}	{NA}	NA	27	NA	NA	NA	NA	NA
Beryllium (Dissolved)	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	NA	0.4 U	NA	NA	NA	NA	NA
Cadmium (Dissolved)	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	NA	0.31	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	ug/L	- -	- -	- -	- -	NA	1.9	NA	NA	NA	NA	NA
Cobalt (Dissolved)	ug/L	{ID}	100	{NLV}	{NA}	NA	0.55	NA	NA	NA	NA	NA
Copper (Dissolved)	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	NA	2.8 U	NA	NA	NA	NA	NA
Cyanide (dissolved)	ug/L	{ID}	5.2	{NLV}	{NA}	NA	**17 (GSI (2013))**	NA	NA	NA	NA	NA
Lead (Dissolved)	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	NA	0.4 U	NA	NA	NA	NA	NA
Manganese (Dissolved)	ug/L	{ID}	4,857 {(G,X)}	{NLV}	{NA}	NA	230	NA	NA	NA	NA	NA
Mercury (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.2 U	NA	NA	NA	NA	NA
Nickel (Dissolved)	ug/L	{ID}	124 {(G)}	{NLV}	{NA}	NA	6.3	NA	NA	NA	NA	NA
Selenium (Dissolved)	ug/L	{ID}	- -	{NLV}	{NA}	NA	21	NA	NA	NA	NA	NA
Silver (Dissolved)	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	NA	**0.4 U**	NA	NA	NA	NA	NA
Thallium (Dissolved)	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	NA	0.2 U	NA	NA	NA	NA	NA
Vanadium (Dissolved)	ug/L	{ID}	27	{NLV}	{NA}	NA	0.8 U	NA	NA	NA	NA	NA
Zinc (Dissolved)	ug/L	{ID}	283 {(G)}	{NLV}	{NA}	NA	19	NA	NA	NA	NA	NA
Field Parameters												
Conductivity Field	mS/cm	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
pH Field	s.u.	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Field Parameters-Filtered												
Dissolved Oxygen, Field	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-10-12 4 - 6 01/29/14	MW-10-12 8 - 10 01/29/14	MW-10-13 1 - 3 01/30/14	MW-10-13 8 - 10 01/30/14	MW-10-14 4 - 6 01/30/14	MW-10-14 9 - 11 01/30/14	MW-10-15 1 - 3 01/31/14	MW-10-15 5.5 - 6 01/31/14
VOC																
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-10-12 4 - 6 01/29/14	MW-10-12 8 - 10 01/29/14	MW-10-13 1 - 3 01/30/14	MW-10-13 8 - 10 01/30/14	MW-10-14 4 - 6 01/30/14	MW-10-14 9 - 11 01/30/14	MW-10-15 1 - 3 01/31/14	MW-10-15 5.5 - 6 01/31/14
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-10-12 4 - 6 01/29/14	MW-10-12 8 - 10 01/29/14	MW-10-13 1 - 3 01/30/14	MW-10-13 8 - 10 01/30/14	MW-10-14 4 - 6 01/30/14	MW-10-14 9 - 11 01/30/14	MW-10-15 1 - 3 01/31/14	MW-10-15 5.5 - 6 01/31/14
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	0.056 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
PCB																
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.5	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.72
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16	6,500	16,000	810	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	26.156 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	0.646 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	0.096 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	0.432 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	0.931 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	97.133 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	2.485 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	5.653 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	850,000	840,000	930,000	840,000	900,000	860,000	950,000	610,000

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-10-15 11 - 13 01/31/14	RFI-03-05 0.5 - 2.5 11/29/01	RFI-03-09 0 - 2 08/23/02
VOC											
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-10-15 11 - 13 01/31/14	RFI-03-05 0.5 - 2.5 11/29/01	RFI-03-09 0 - 2 08/23/02
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-10-15 11 - 13 01/31/14	RFI-03-05 0.5 - 2.5 11/29/01	RFI-03-09 0 - 2 08/23/02
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	0.056 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA
PCB											
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	NA	NA
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	NA	NA
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	NA	NA
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	NA	NA
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	NA	NA
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	NA	NA
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	NA	NA
Total PCBs	mg/kg	{NA}	{NLL}	16	6,500	16,000	810	{NA}	NA	NA	NA
Inorganic											
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA
Barium	mg/kg	{NA}	26.156 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA
Beryllium	mg/kg	{NA}	0.646 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA
Cadmium	mg/kg	{NA}	0.096 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA
Copper	mg/kg	{NA}	0.432 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA
Lead	mg/kg	{NA}	0.931 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA
Manganese	mg/kg	{NA}	97.133 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	**2,400 (GSIP,NPSIC,SDBL)**	230 J (GSIP)
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA
Nickel	mg/kg	{NA}	2.485 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA
Zinc	mg/kg	{NA}	5.653 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	810,000	868,000	906,000

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-03-13 0.8 - 2.8 03/11/03	RFI-03-14 0.8 - 2.8 03/11/03	SB-10-05 1 - 3 09/04/13	SB-10-05 4 - 6 09/04/13
VOC												
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-03-13 0.8 - 2.8 03/11/03	RFI-03-14 0.8 - 2.8 03/11/03	SB-10-05 1 - 3 09/04/13	SB-10-05 4 - 6 09/04/13
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-03-13 0.8 - 2.8 03/11/03	RFI-03-14 0.8 - 2.8 03/11/03	SB-10-05 1 - 3 09/04/13	SB-10-05 4 - 6 09/04/13
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	0.056 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA
PCB												
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16	6,500	16,000	810	{NA}	NA	NA	NA	NA
Inorganic												
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA
Barium	mg/kg	{NA}	26.156 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	0.646 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	0.096 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA
Copper	mg/kg	{NA}	0.432 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA
Lead	mg/kg	{NA}	0.931 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA
Manganese	mg/kg	{NA}	97.133 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	**2,500 J (GSIP,NPSIC,SDBL)**	**620 J (GSIP,SDBL)**	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA
Nickel	mg/kg	{NA}	2.485 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Zinc	mg/kg	{NA}	5.653 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	890,000	945,000	900,000	890,000

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-10-05 6 - 8 09/04/13	SB-10-05 8 - 10 09/04/13	SB-10-05 10 - 12 09/04/13	SB-10-05 12 - 14 09/04/13	SB-10-05 14 - 16 09/04/13	SB-10-06 1 - 3 09/04/13	SB-10-06 4 - 6 09/04/13	SB-10-06 6 - 8 09/04/13	SB-10-06 8 - 10 09/04/13
VOC																	
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																	
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-10-05 6 - 8 09/04/13	SB-10-05 8 - 10 09/04/13	SB-10-05 10 - 12 09/04/13	SB-10-05 12 - 14 09/04/13	SB-10-05 14 - 16 09/04/13	SB-10-06 1 - 3 09/04/13	SB-10-06 4 - 6 09/04/13	SB-10-06 6 - 8 09/04/13	SB-10-06 8 - 10 09/04/13
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-10-05 6 - 8 09/04/13	SB-10-05 8 - 10 09/04/13	SB-10-05 10 - 12 09/04/13	SB-10-05 12 - 14 09/04/13	SB-10-05 14 - 16 09/04/13	SB-10-06 1 - 3 09/04/13	SB-10-06 4 - 6 09/04/13	SB-10-06 6 - 8 09/04/13	SB-10-06 8 - 10 09/04/13
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	0.056 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB																	
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.9	1.5	0.7	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16	6,500	16,000	810	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																	
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	26.156 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	0.646 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	0.096 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	0.432 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	0.931 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	97.133 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	2.485 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	5.653 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																	
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	940,000	910,000	850,000	860,000	850,000	910,000	690,000	900,000	860,000

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-10-06 10 - 12 09/04/13	SB-10-06 12 - 14 09/04/13	SB-10-06 14 - 16 09/04/13	SB-10-07 1 - 3 09/04/13	SB-10-07 4 - 6 09/04/13	SB-10-07 6 - 8 09/04/13	SB-10-07 8 - 10 09/04/13	SB-10-07 10 - 12 09/04/13	SB-10-07 12 - 14 09/04/13
VOC																	
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																	
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-10-06 10 - 12 09/04/13	SB-10-06 12 - 14 09/04/13	SB-10-06 14 - 16 09/04/13	SB-10-07 1 - 3 09/04/13	SB-10-07 4 - 6 09/04/13	SB-10-07 6 - 8 09/04/13	SB-10-07 8 - 10 09/04/13	SB-10-07 10 - 12 09/04/13	SB-10-07 12 - 14 09/04/13
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-10-06 10 - 12 09/04/13	SB-10-06 12 - 14 09/04/13	SB-10-06 14 - 16 09/04/13	SB-10-07 1 - 3 09/04/13	SB-10-07 4 - 6 09/04/13	SB-10-07 6 - 8 09/04/13	SB-10-07 8 - 10 09/04/13	SB-10-07 10 - 12 09/04/13	SB-10-07 12 - 14 09/04/13
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	0.056 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB																	
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16	6,500	16,000	810	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																	
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	26.156 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	0.646 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	0.096 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	0.432 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	0.931 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	97.133 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	2.485 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	5.653 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																	
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	940,000	860,000	830,000	940,000	930,000	930,000	940,000	940,000	900,000

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-10-08 1 - 3 09/04/13	SB-10-08 4 - 6 09/04/13	SB-10-08 6 - 8 09/04/13	SB-10-08 8 - 10 09/04/13	SB-10-08 10 - 12 09/04/13	SB-10-08 12 - 14 09/04/13	SB-10-08 14 - 16 09/04/13	SB-10-08 16 - 18 09/04/13	SB-10-08-08 0.5 - 2 01/29/14
VOC																	
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																	
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-10-08 1 - 3 09/04/13	SB-10-08 4 - 6 09/04/13	SB-10-08 6 - 8 09/04/13	SB-10-08 8 - 10 09/04/13	SB-10-08 10 - 12 09/04/13	SB-10-08 12 - 14 09/04/13	SB-10-08 14 - 16 09/04/13	SB-10-08 16 - 18 09/04/13	SB-10-08-08 0.5 - 2 01/29/14
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-10-08 1 - 3 09/04/13	SB-10-08 4 - 6 09/04/13	SB-10-08 6 - 8 09/04/13	SB-10-08 8 - 10 09/04/13	SB-10-08 10 - 12 09/04/13	SB-10-08 12 - 14 09/04/13	SB-10-08 14 - 16 09/04/13	SB-10-08 16 - 18 09/04/13	SB-10-08-08 0.5 - 2 01/29/14
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	0.056 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB																	
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	3 UY	6 UY	6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	3 UY	6 UY	6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	3 UY	6 UY	6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	3 UY	6 UY	6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	3 UY	6 UY	6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	**21 Y**	**42 Y**	**47 Y**	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	3 UY	6 UY	6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16	6,500	16,000	810	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																	
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	26.156 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	0.646 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	0.096 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	0.432 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	0.931 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	97.133 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	2.485 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	5.653 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																	
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	930,000	820,000	830,000	830,000	780,000	790,000	790,000	820,000	860,000

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-10-08-08 4 - 6 01/29/14	SB-10-08-08 6 - 8 01/29/14	SB-10-08-09 1 - 2 01/29/14	SB-10-08-09 4 - 6 01/29/14	SB-10-08-09 6 - 8 01/29/14	SB-10-08-10 1 - 3 01/29/14	SB-10-08-10 4 - 6 01/29/14
VOC															
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC															
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-10-08-08 4 - 6 01/29/14	SB-10-08-08 6 - 8 01/29/14	SB-10-08-09 1 - 2 01/29/14	SB-10-08-09 4 - 6 01/29/14	SB-10-08-09 6 - 8 01/29/14	SB-10-08-10 1 - 3 01/29/14	SB-10-08-10 4 - 6 01/29/14
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-10-08-08 4 - 6 01/29/14	SB-10-08-08 6 - 8 01/29/14	SB-10-08-09 1 - 2 01/29/14	SB-10-08-09 4 - 6 01/29/14	SB-10-08-09 6 - 8 01/29/14	SB-10-08-10 1 - 3 01/29/14	SB-10-08-10 4 - 6 01/29/14
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	0.056 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB															
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.6 UY	1 UY	0.6 UY	0.33 U	7 UY	0.5 UY [1 UY]	2 UY
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.6 UY	1 UY	0.6 UY	0.33 U	7 UY	0.5 UY [1 UY]	2 UY
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.6 UY	1 UY	0.6 UY	0.33 U	7 UY	0.5 UY [1 UY]	2 UY
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.6 UY	1 UY	0.6 UY	0.33 U	7 UY	0.5 UY [1 UY]	2 UY
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.6 UY	1 UY	0.6 UY	0.33 U	7 UY	0.5 UY [1 UY]	2 UY
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	4.4 Y	6.7 Y	3.4 Y	0.33 U	**39 Y**	4.4 Y [6.3 Y]	12 Y
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.6 UY	1 UY	0.6 UY	0.33 U	7 UY	0.5 UY [1 UY]	2 UY
Total PCBs	mg/kg	{NA}	{NLL}	16	6,500	16,000	810	{NA}	NA	NA	NA	NA	NA	NA	NA
Inorganic															
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	26.156 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	0.646 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	0.096 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	0.432 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	0.931 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	97.133 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	2.485 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	5.653 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	910,000	890,000	870,000	870,000	740,000	910,000 [780,000]	860,000

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-10-08-10 6 - 8 01/29/14	SB-10-08-13 1 - 3 02/26/14	SB-10-08-13 4 - 6 02/26/14	SB-10-08-13 6 - 8 02/26/14	SB-10-08-13 8 - 10 02/26/14	SB-10-08-14 1 - 3 02/26/14	SB-10-08-14 4 - 6 02/26/14
VOC															
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC															
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-10-08-10 6 - 8 01/29/14	SB-10-08-13 1 - 3 02/26/14	SB-10-08-13 4 - 6 02/26/14	SB-10-08-13 6 - 8 02/26/14	SB-10-08-13 8 - 10 02/26/14	SB-10-08-14 1 - 3 02/26/14	SB-10-08-14 4 - 6 02/26/14
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-10-08-10 6 - 8 01/29/14	SB-10-08-13 1 - 3 02/26/14	SB-10-08-13 4 - 6 02/26/14	SB-10-08-13 6 - 8 02/26/14	SB-10-08-13 8 - 10 02/26/14	SB-10-08-14 1 - 3 02/26/14	SB-10-08-14 4 - 6 02/26/14
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	0.056 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB															
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	6 UY	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	6 UY	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	6 UY	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	6 UY	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	6 UY	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	**18 Y**	0.33 U	5.3 Y	1.5	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	6 UY	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16	6,500	16,000	810	{NA}	NA	NA	NA	NA	NA	NA	NA
Inorganic															
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	26.156 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	0.646 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	0.096 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	0.432 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	0.931 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	97.133 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	2.485 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	5.653 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	790,000	900,000	850,000	820,000	880,000	930,000	860,000

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-10-08-14 6 - 8 02/26/14	SB-10-08-14 8 - 10 02/26/14	SB-10-08-15 1 - 3 02/26/14	SB-10-08-15 4 - 6 02/26/14	SB-10-08-15 6 - 8 02/26/14	SB-10-08-15 8 - 10 02/26/14	SB-10-09 4 - 6 10/14/13
VOC															
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC															
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-10-08-14 6 - 8 02/26/14	SB-10-08-14 8 - 10 02/26/14	SB-10-08-15 1 - 3 02/26/14	SB-10-08-15 4 - 6 02/26/14	SB-10-08-15 6 - 8 02/26/14	SB-10-08-15 8 - 10 02/26/14	SB-10-09 4 - 6 10/14/13
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-10-08-14 6 - 8 02/26/14	SB-10-08-14 8 - 10 02/26/14	SB-10-08-15 1 - 3 02/26/14	SB-10-08-15 4 - 6 02/26/14	SB-10-08-15 6 - 8 02/26/14	SB-10-08-15 8 - 10 02/26/14	SB-10-09 4 - 6 10/14/13
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	0.056 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB															
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.6 UY	0.6 UY	0.33 U	0.33 U	1 UY	0.33 U [0.33 U]	0.33 U
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.6 UY	0.6 UY	0.33 U	0.33 U	1 UY	0.33 U [0.33 U]	0.33 U
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.6 UY	0.6 UY	0.33 U	0.33 U	1 UY	0.33 U [0.33 U]	0.33 U
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.6 UY	0.6 UY	0.33 U	0.33 U	1 UY	0.33 U [0.33 U]	0.33 U
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.6 UY	0.6 UY	0.33 U	0.33 U	1 UY	0.33 U [0.33 U]	0.33 U
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	3.5 Y	4.4 Y	0.33 U	1.4	7.3 Y	1.1 [1.5]	0.33 U
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.6 UY	0.6 UY	0.33 U	0.33 U	1 UY	0.33 U [0.33 U]	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16	6,500	16,000	810	{NA}	NA	NA	NA	NA	NA	NA	NA
Inorganic															
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	26.156 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	0.646 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	0.096 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	0.432 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	0.931 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	97.133 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	2.485 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	5.653 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	820,000	800,000	910,000	910,000	790,000	840,000 [820,000]	840,000

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-10-09 6 - 8 10/14/13	SB-10-09 8 - 10 10/14/13	SB-10-09 10 - 12 10/14/13	SB-10-10 4 - 6 10/14/13	SB-10-10 6 - 8 10/14/13	SB-10-10 8 - 10 10/14/13	SB-10-10 10 - 12 10/14/13	SB-10-11 4 - 6 10/14/13	SB-10-11 6 - 8 10/14/13
VOC																	
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																	
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-10-09 6 - 8 10/14/13	SB-10-09 8 - 10 10/14/13	SB-10-09 10 - 12 10/14/13	SB-10-10 4 - 6 10/14/13	SB-10-10 6 - 8 10/14/13	SB-10-10 8 - 10 10/14/13	SB-10-10 10 - 12 10/14/13	SB-10-11 4 - 6 10/14/13	SB-10-11 6 - 8 10/14/13
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-10-09 6 - 8 10/14/13	SB-10-09 8 - 10 10/14/13	SB-10-09 10 - 12 10/14/13	SB-10-10 4 - 6 10/14/13	SB-10-10 6 - 8 10/14/13	SB-10-10 8 - 10 10/14/13	SB-10-10 10 - 12 10/14/13	SB-10-11 4 - 6 10/14/13	SB-10-11 6 - 8 10/14/13
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	0.056 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB																	
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16	6,500	16,000	810	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																	
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	26.156 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	0.646 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	0.096 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	0.432 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	0.931 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	97.133 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	2.485 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	5.653 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																	
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	770,000	840,000	820,000	750,000	780,000	830,000	830,000	790,000	800,000

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-10-11 8 - 10 10/14/13	SB-10-11 10 - 12 10/14/13	TW-10-4-1 8 - 10 12/04/13	TW-10-4-1 10 - 12 12/04/13	TW-10-4-1 12 - 14 12/04/13	TW-10-08-1 4 - 6 12/02/13	TW-10-08-1 6 - 8 12/02/13	TW-10-08-1 8 - 10 12/02/13
VOC																
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-10-11 8 - 10 10/14/13	SB-10-11 10 - 12 10/14/13	TW-10-4-1 8 - 10 12/04/13	TW-10-4-1 10 - 12 12/04/13	TW-10-4-1 12 - 14 12/04/13	TW-10-08-1 4 - 6 12/02/13	TW-10-08-1 6 - 8 12/02/13	TW-10-08-1 8 - 10 12/02/13
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-10-11 8 - 10 10/14/13	SB-10-11 10 - 12 10/14/13	TW-10-4-1 8 - 10 12/04/13	TW-10-4-1 10 - 12 12/04/13	TW-10-4-1 12 - 14 12/04/13	TW-10-08-1 4 - 6 12/02/13	TW-10-08-1 6 - 8 12/02/13	TW-10-08-1 8 - 10 12/02/13
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	0.056 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
PCB																
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	1 UY	0.6 UY	1 UY	0.33 U
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	1 UY	0.6 UY	1 UY	0.33 U
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	1 UY	0.6 UY	1 UY	0.33 U
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	11 Y	0.6 UY	1 UY	0.33 U
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	1 UY	0.6 UY	1 UY	0.33 U
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	1 UY	5 Y	6 Y	0.33 U
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	1 UY	0.6 UY	1 UY	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16	6,500	16,000	810	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	26.156 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	0.646 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	0.096 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	0.432 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	0.931 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	97.133 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	2.485 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	5.653 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	960,000	830,000	940,000	890,000	850,000	840,000	800,000	830,000

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-10-08-1 10 - 12 12/02/13	TW-10-08-2 1 - 3 01/29/14	TW-10-08-2 4 - 6 12/03/13	TW-10-08-2 6 - 8 01/29/14	TW-10-08-2 8 - 10 12/03/13	TW-10-08-2 10 - 12 12/03/13	TW-10-08-3 4 - 6 12/03/13	TW-10-08-3 8 - 10 12/03/13
VOC																
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-10-08-1 10 - 12 12/02/13	TW-10-08-2 1 - 3 01/29/14	TW-10-08-2 4 - 6 12/03/13	TW-10-08-2 6 - 8 01/29/14	TW-10-08-2 8 - 10 12/03/13	TW-10-08-2 10 - 12 12/03/13	TW-10-08-3 4 - 6 12/03/13	TW-10-08-3 8 - 10 12/03/13
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-10-08-1 10 - 12 12/02/13	TW-10-08-2 1 - 3 01/29/14	TW-10-08-2 4 - 6 12/03/13	TW-10-08-2 6 - 8 01/29/14	TW-10-08-2 8 - 10 12/03/13	TW-10-08-2 10 - 12 12/03/13	TW-10-08-3 4 - 6 12/03/13	TW-10-08-3 8 - 10 12/03/13
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	0.056 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
PCB																
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	21 UY	0.33 U	0.33 U	1 UY	0.33 U	1 UY
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	21 UY	0.33 U	0.33 U	1 UY	0.33 U	1 UY
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	21 UY	0.33 U	0.33 U	1 UY	0.33 U	1 UY
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	21 UY	0.33 U	0.33 U	1 UY	0.33 U	1 UY
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	21 UY	0.33 U	0.33 U	1 UY	0.33 U	1 UY
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	1.7	**127 Y**	0.4	0.33 U	7 Y	0.3 b	4 Y
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	21 UY	0.33 U	0.33 U	1 UY	0.33 U	1 UY
Total PCBs	mg/kg	{NA}	{NLL}	16	6,500	16,000	810	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	26.156 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	0.646 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	0.096 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	0.432 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	0.931 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	97.133 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	2.485 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	5.653 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	830,000	860,000	670,000	790,000	850,000	680,000	870,000	830,000

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-10-08-3 10 - 12 12/03/13	TW-10-08-4 4 - 6 12/03/13	TW-10-08-4 8 - 10 12/03/13	TW-10-08-4 10 - 12 12/03/13	TW-10-08-5 4 - 6 12/03/13	TW-10-08-5 8 - 10 12/03/13	TW-10-08-5 10 - 12 12/03/13	TW-10-08-6 4 - 6 12/04/13
VOC																
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-10-08-3 10 - 12 12/03/13	TW-10-08-4 4 - 6 12/03/13	TW-10-08-4 8 - 10 12/03/13	TW-10-08-4 10 - 12 12/03/13	TW-10-08-5 4 - 6 12/03/13	TW-10-08-5 8 - 10 12/03/13	TW-10-08-5 10 - 12 12/03/13	TW-10-08-6 4 - 6 12/04/13
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-10-08-3 10 - 12 12/03/13	TW-10-08-4 4 - 6 12/03/13	TW-10-08-4 8 - 10 12/03/13	TW-10-08-4 10 - 12 12/03/13	TW-10-08-5 4 - 6 12/03/13	TW-10-08-5 8 - 10 12/03/13	TW-10-08-5 10 - 12 12/03/13	TW-10-08-6 4 - 6 12/04/13
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	0.056 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
PCB																
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.6	1.4	0.5	0.8	0.33 U	0.33 U	0.33 U	0.6
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16	6,500	16,000	810	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	26.156 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	0.646 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	0.096 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	0.432 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	0.931 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	97.133 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	2.485 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	5.653 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	860,000	800,000	820,000	840,000	850,000	810,000	830,000	800,000

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-10-08-6 8 - 10 12/04/13	TW-10-08-6 10 - 12 12/04/13	TW-10-08-7 4 - 6 12/04/13	TW-10-08-7 8 - 10 12/04/13	TW-10-08-7 10 - 12 12/04/13
VOC													
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA
SVOC													
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-10-08-6 8 - 10 12/04/13	TW-10-08-6 10 - 12 12/04/13	TW-10-08-7 4 - 6 12/04/13	TW-10-08-7 8 - 10 12/04/13	TW-10-08-7 10 - 12 12/04/13
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA

Table D-2

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-10-08-6 8 - 10 12/04/13	TW-10-08-6 10 - 12 12/04/13	TW-10-08-7 4 - 6 12/04/13	TW-10-08-7 8 - 10 12/04/13	TW-10-08-7 10 - 12 12/04/13
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	0.056 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA
PCB													
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	1 UY	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	1 UY	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	1 UY	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	1 UY	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	1 UY	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.3 b	9 Y	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	1 UY	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16	6,500	16,000	810	{NA}	NA	NA	NA	NA	NA
Inorganic													
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	26.156 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	0.646 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	0.096 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	0.432 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	0.931 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	97.133 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	2.485 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	5.653 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	890,000	810,000	780,000	740,000	850,000

Table D-3

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	20-162 09/17/02	20-162 12/20/02	20-FP07 03/18/13	20-FP8 09/17/02	20-FP8 12/20/02	MW-10-03 05/07/13	RW1-P2 09/17/02	TW-10-08-3 01/02/14	TW-10-08-4 02/06/14
VOC										
1,1,1,2-Tetrachloroethane	mg/kg	NA	NA	5 UY	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	NA	NA	NA	NA	31 U	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	NA	NA	5 UY	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	NA	NA	5 UY	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	NA	NA	5 UY	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	13 Y	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	NA	NA	5 UY	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
2-Butanone	mg/kg	NA	NA	50 UY	NA	31 U	NA	NA	NA	NA
2-Hexanone	mg/kg	NA	NA	50 UY	NA	31 U	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	NA	NA	80 Y	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	NA	NA	50 UY	NA	31 U	NA	NA	NA	NA
Acetone	mg/kg	NA	NA	50 UY	NA	31 U	NA	NA	NA	NA
Acrylonitrile	mg/kg	NA	NA	5 UY	NA	NA	NA	NA	NA	NA

Table D-3

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	20-162 09/17/02	20-162 12/20/02	20-FP07 03/18/13	20-FP8 09/17/02	20-FP8 12/20/02	MW-10-03 05/07/13	RW1-P2 09/17/02	TW-10-08-3 01/02/14	TW-10-08-4 02/06/14
Benzene	mg/kg	NA	NA	5 UY	NA	7.9	NA	NA	NA	NA
Bromobenzene	mg/kg	NA	NA	5 UY	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	NA	NA	5 UY	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
Bromoform	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
Bromomethane	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
Carbon Disulfide	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
Chlorobenzene	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
Chloroethane	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
Chloroform	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
Chloromethane	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
Cyclohexane	mg/kg	NA	NA	NA	NA	31 U	NA	NA	NA	NA
Dibromochloromethane	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
Dibromomethane	mg/kg	NA	NA	5 UY	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
Diethyl ether	mg/kg	NA	NA	5 UY	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	NA	NA	5 UY	NA	39	NA	NA	NA	NA
Hexachloroethane	mg/kg	NA	NA	5 UY	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	NA	NA	5 UY	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	NA	NA	16 Y	NA	41 J	NA	NA	NA	NA
m&p-Xylene	mg/kg	NA	NA	10 UY	NA	190	NA	NA	NA	NA
Methyl acetate	mg/kg	NA	NA	NA	NA	31 U	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	NA	NA	5 UY	NA	6.3 UD	NA	NA	NA	NA
Methylcyclohexane	mg/kg	NA	NA	NA	NA	73	NA	NA	NA	NA

Table D-3

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	20-162 09/17/02	20-162 12/20/02	20-FP07 03/18/13	20-FP8 09/17/02	20-FP8 12/20/02	MW-10-03 05/07/13	RW1-P2 09/17/02	TW-10-08-3 01/02/14	TW-10-08-4 02/06/14
Methylene Chloride	mg/kg	NA	NA	10 UY	NA	31 UD	NA	NA	NA	NA
Naphthalene	mg/kg	NA	NA	40 Y	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	NA	NA	41 Y	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	NA	NA	23 Y	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	NA	NA	5 UY	NA	120 J	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	NA	NA	5 UY	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	NA	NA	20 Y	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
tert-Butylbenzene	mg/kg	NA	NA	5 UY	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
Tetrahydrofuran	mg/kg	NA	NA	50 UY	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	NA	NA	5 UY	NA	22	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	NA	NA	5 UY	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
Vinyl Chloride	mg/kg	NA	NA	5 UY	NA	6.3 U	NA	NA	NA	NA
SVOC										
1,1'-Biphenyl	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	NA	2,000 U	NA	NA	1,900 U	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA

Table D-3

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	20-162 09/17/02	20-162 12/20/02	20-FP07 03/18/13	20-FP8 09/17/02	20-FP8 12/20/02	MW-10-03 05/07/13	RW1-P2 09/17/02	TW-10-08-3 01/02/14	TW-10-08-4 02/06/14
2,6-Dinitrotoluene	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
2-Chlorophenol	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
2-Methylphenol	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
2-Nitroaniline	mg/kg	NA	2,000 U	NA	NA	1,900 U	NA	NA	NA	NA
2-Nitrophenol	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	NA	990 UJ	NA	NA	970 UJ	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	NA	2,000 U	NA	NA	1,900 U	NA	NA	NA	NA
3-Nitroaniline	mg/kg	NA	2,000 U	NA	NA	1,900 U	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	2,000 U	NA	NA	1,900 U	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
4-Chloroaniline	mg/kg	NA	2,000 U	NA	NA	1,900 U	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
4-Nitroaniline	mg/kg	NA	2,000 U	NA	NA	1,900 U	NA	NA	NA	NA
4-Nitrophenol	mg/kg	NA	2,000 U	NA	NA	1,900 U	NA	NA	NA	NA
Acenaphthene	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Acenaphthylene	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Acetophenone	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Anthracene	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Atrazine	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Benzaldehyde	mg/kg	NA	500 U	NA	NA	490 UJ	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA

Table D-3

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	20-162 09/17/02	20-162 12/20/02	20-FP07 03/18/13	20-FP8 09/17/02	20-FP8 12/20/02	MW-10-03 05/07/13	RW1-P2 09/17/02	TW-10-08-3 01/02/14	TW-10-08-4 02/06/14
Benzo(k)fluoranthene	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Caprolactam	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Carbazole	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Chrysene	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Dibenzofuran	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Diethylphthalate	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Dimethylphthalate	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Fluoranthene	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Fluorene	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Hexachloroethane	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Isophorone	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Methylphenols, Total	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Naphthalene	mg/kg	NA	500 U	NA	NA	190 J	NA	NA	NA	NA
Nitrobenzene	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA

Table D-3

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	20-162 09/17/02	20-162 12/20/02	20-FP07 03/18/13	20-FP8 09/17/02	20-FP8 12/20/02	MW-10-03 05/07/13	RW1-P2 09/17/02	TW-10-08-3 01/02/14	TW-10-08-4 02/06/14
Pentachlorophenol	mg/kg	NA	2,000 U	NA	NA	1,900 U	NA	NA	NA	NA
Phenanthrene	mg/kg	NA	67 JD	NA	NA	490 U	NA	NA	NA	NA
Phenol	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
Pyrene	mg/kg	NA	500 U	NA	NA	490 U	NA	NA	NA	NA
PCB										
Aroclor-1016	mg/kg	NA	1 U	3 UX	NA	1 U	1 U	NA	2 UY	7 UY
Aroclor-1221	mg/kg	NA	1 U	3 UX	NA	1 U	1 U	NA	2 UY	7 UY
Aroclor-1232	mg/kg	NA	1 U	3 UX	NA	1 U	1 U	NA	2 UY	7 UY
Aroclor-1242	mg/kg	NA	1 U	3 UX	NA	1 U	1.7	NA	2 UY	7 UY
Aroclor-1248	mg/kg	NA	1 U	3 UX	NA	1 U	1 U	NA	2 UY	7 UY
Aroclor-1254	mg/kg	NA	1 U	3 UX	NA	1 U	1 U	NA	13 Y	40 Y
Aroclor-1260	mg/kg	NA	1 U	3 UX	NA	1 U	1 U	NA	2 UY	7 UY
Total PCBs	mg/kg	NA	1 U	NA	NA	1 U	NA	NA	NA	NA
Inorganic										
Antimony	mg/kg	NA	0.39 U	0.5 U	NA	0.16 J	0.5 U	NA	NA	NA
Arsenic	mg/kg	NA	1.6 J	0.86	NA	17 J	1.05	NA	NA	NA
Barium	mg/kg	NA	5.3	6.05	NA	2.6	21.9	NA	NA	NA
Beryllium	mg/kg	NA	0.19 U	0.2 U	NA	0.2 U	0.2 U	NA	NA	NA
Cadmium	mg/kg	NA	0.04 J	0.2 U	NA	0.064 J	0.2 U	NA	NA	NA
Chromium Total	mg/kg	NA	3.9 J	5.35	NA	29 J	1.39	NA	NA	NA
Cobalt	mg/kg	NA	0.067 J	0.5 U	NA	0.073 J	0.5 U	NA	NA	NA
Copper	mg/kg	NA	13 J	7.7	NA	4.7 J	0.67	NA	NA	NA
Cyanide (total)	mg/kg	NA	NA	2 U	NA	0.2 U	NA	NA	NA	NA
Lead	mg/kg	NA	32 J	6.65	NA	2.8 J	1.39	NA	NA	NA
Manganese	mg/kg	NA	1.5 J	0.5 U	NA	0.6 J	0.75	NA	NA	NA
Mercury	mg/kg	NA	0.019 UJ	0.05 U	NA	0.02 UJ	NA	NA	NA	NA
Nickel	mg/kg	NA	1.8	0.5 U	NA	0.84	0.61	NA	NA	NA

Table D-3

Priority #5 - AOIs 10-1/10-4 Hydraulic Oil Areas
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	20-162 09/17/02	20-162 12/20/02	20-FP07 03/18/13	20-FP8 09/17/02	20-FP8 12/20/02	MW-10-03 05/07/13	RW1-P2 09/17/02	TW-10-08-3 01/02/14	TW-10-08-4 02/06/14
Selenium	mg/kg	NA	0.16 J	0.4 U	NA	0.23 J	0.4 U	NA	NA	NA
Silver	mg/kg	NA	0.038 J	0.1 U	NA	0.39 U	0.2 U	NA	NA	NA
Thallium	mg/kg	NA	0.39 U	0.2 U	NA	0.39 U	0.2 U	NA	NA	NA
Vanadium	mg/kg	NA	1.5 J	0.5 U	NA	6.5 J	0.5 U	NA	NA	NA
Zinc	mg/kg	NA	4.3	1 U	NA	3.1	1.48	NA	NA	NA
Miscellaneous										
Ignitability	deg f	200 U	NA	NA	150	NA	NA	200 U	NA	NA
Specific gravity	sg	NA	NA	NA	NA	0.99	NA	NA	NA	NA

Table E-1

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	70-164R 06/07/13	70-165 09/26/01	70-165 06/22/02	70-165 03/28/03	70-165 10/07/04	70-165 10/29/07	70-165 09/16/08
VOC												
1,1,1,2-Tetrachloroethane	ug/L	- -	- -	96,000	1,100,000	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/L	- -	89	1,300,000	1,330,000	1 U	1 U	NA	NA	1 U	NA	NA
1,1,2,2-Tetrachloroethane	ug/L	- -	78	77,000	2,970,000	1 U	1 U	NA	NA	1 U	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	- -	32	170,000	170,000	30 U	1 UJ	NA	NA	30 U	NA	NA
1,1,2-Trichloroethane	ug/L	- -	330	110,000	4,420,000	1 U	1 U	NA	NA	1 U	NA	NA
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	1 U	1 U	NA	NA	1 U	NA	NA
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	1 U	1 U	NA	NA	1 U	NA	NA
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	ug/L	- -	- -	18,000	1,900,000	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	- -	99	300,000	300,000	2 U	5 U	NA	NA	2 U	NA	NA
1,2,4-Trimethylbenzene	ug/L	56,000	17	56,000	55,890	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	- -	- -	1,200	1,230	1 U	1 U	NA	NA	1 U	NA	NA
1,2-Dibromoethane	ug/L	- -	5.7	15,000	4,200,000	1 U	1 U	NA	NA	1 U	NA	NA
1,2-Dichlorobenzene	ug/L	- -	13	160,000	156,000	1 U	1 U	NA	NA	1 U	NA	NA
1,2-Dichloroethane	ug/L	2,500,000	360	59,000	8,520,000	1 U	1 U	NA	NA	1 U	NA	NA
1,2-Dichloropropane	ug/L	550,000	230	36,000	2,800,000	1 U	1 U	NA	NA	1 U	NA	NA
1,3,5-Trimethylbenzene	ug/L	- -	45	61,000	61,150	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/L	- -	28	41,000	111,000	1 U	1 U	NA	NA	1 U	NA	NA
1,4-Dichlorobenzene	ug/L	- -	17	74,000	73,800	1 U	1 U	NA	NA	1 U	NA	NA
2-Butanone	ug/L	- -	2,200	240,000,000	240,000,000	20 U	25 U	NA	NA	30 U	NA	NA
2-Hexanone	ug/L	- -	- -	8,700,000	16,000,000	50 U	50 U	NA	NA	50 U	NA	NA
2-Methylnaphthalene	ug/L	- -	19	25,000	24,600	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	ug/L	- -	- -	20,000,000	20,000,000	10 U	50 U	NA	NA	1 U	NA	NA
Acetone	ug/L	15,000,000	1,700	1,000,000,000	1,000,000,000	20 U	25 U	NA	NA	30 U	NA	NA
Acrylonitrile	ug/L	6,400,000	2	190,000	75,000,000	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/L	68,000	200	35,000	1,750,000	1 U	1 U	NA	NA	1 U	NA	NA
Bromobenzene	ug/L	- -	- -	390,000	413,000	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/L	- -	- -	37,000	6,740,000	1 U	1 U	NA	NA	1 U	NA	NA
Bromoform	ug/L	- -	- -	3,100,000	3,100,000	1 U	1 U	NA	NA	1 UJ	NA	NA
Bromomethane	ug/L	- -	35	9,000	14,500,000	2 U	1 UJ	NA	NA	2 UJ	NA	NA
Carbon Disulfide	ug/L	13,000	- -	550,000	1,190,000	5 U	5 U	NA	NA	5 UJ	NA	NA
Carbon Tetrachloride	ug/L	- -	45	2,400	793,000	1 U	1 U	NA	NA	1 U	NA	NA
Chlorobenzene	ug/L	160,000	25	470,000	472,000	1 U	1 U	NA	NA	1 U	NA	NA
Chloroethane	ug/L	110,000	1,100	5,700,000	5,740,000	1 U	1 U	NA	NA	1 UJ	NA	NA
Chloroform	ug/L	- -	350	180,000	7,920,000	1 U	1 U	NA	NA	1 U	NA	NA
Chloromethane	ug/L	36,000	- -	45,000	6,340,000	1 U	1 U	NA	NA	1 U	NA	NA
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	1 U	1 U	NA	NA	1 U	NA	NA
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	NA	NA	1 U	NA	NA
Cyclohexane	ug/L	- -	- -	- -	- -	1 U	5 U	NA	NA	1 U	NA	NA
Dibromochloromethane	ug/L	- -	- -	110,000	2,600,000	1 U	1 U	NA	NA	1 U	NA	NA
Dibromomethane	ug/L	- -	- -	- -	11,000,000	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/L	- -	- -	300,000	300,000	1 U	1 U	NA	NA	1 UJ	NA	NA

Table E-1

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	70-164R 06/07/13	70-165 09/26/01	70-165 06/22/02	70-165 03/28/03	70-165 10/07/04	70-165 10/29/07	70-165 09/16/08
Diethyl ether	ug/L	650,000	- -	61,000,000	61,000,000	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/L	43,000	18	170,000	169,000	1 U	1 U	NA	NA	1 U	NA	NA
Hexachloroethane	ug/L	- -	6.7	50,000	50,000	NA	NA	NA	NA	NA	NA	NA
Iodomethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	ug/L	29,000	28	56,000	56,000	1 U	5 U	NA	NA	1 U	NA	NA
m&p-Xylene	ug/L	- -	- -	- -	- -	2 U	2 U	NA	NA	1 U	NA	NA
Methyl acetate	ug/L	- -	- -	- -	- -	10 U	5 U	NA	NA	10 U	NA	NA
Methyl tert-butyl ether	ug/L	- -	7,100	47,000,000	46,800,000	5 U	5 U	NA	NA	5 U	NA	NA
Methylcyclohexane	ug/L	- -	- -	- -	- -	20 U	1 U	NA	NA	20 U	NA	NA
Methylene Chloride	ug/L	- -	1,500	1,400,000	17,000,000	5 U	5 U	NA	NA	5 U	NA	NA
Naphthalene	ug/L	- -	11	31,000	31,000	5 U	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	ug/L	- -	- -	- -	- -	1 U	NA	NA	NA	NA	NA	NA
o-Xylene	ug/L	- -	- -	- -	- -	1 U	1 U	NA	NA	1 U	NA	NA
p-Isopropyltoluene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/L	140,000	80	310,000	310,000	1 U	1 U	NA	NA	1 U	NA	NA
tert-Butylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/L	- -	60	170,000	200,000	1 U	1 U	NA	NA	1 U	NA	NA
Tetrahydrofuran	ug/L	60,000	11,000	16,000,000	1,000,000,000	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/L	61,000	270	530,000	526,000	1 U	1 U	NA	NA	1 U	NA	NA
trans-1,2-Dichloroethene	ug/L	230,000	1,500	200,000	6,300,000	1 U	1 U	NA	NA	1 U	NA	NA
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	NA	NA	1 U	NA	NA
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/L	- -	200	4,900	1,100,000	1 U	1 U	NA	NA	1 U	NA	NA
Trichlorofluoromethane	ug/L	- -	- -	1,100,000	1,100,000	1 U	1 U	NA	NA	1 U	NA	NA
Vinyl Chloride	ug/L	33,000	13	13,000	2,760,000	1 U	1 U	NA	NA	1 U	NA	NA
Xylenes (total)	ug/L	70,000	41	190,000	186,000	1 U	1 U	NA	NA	1 U	NA	NA
SVOC												
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	- -	- -	- -	1,200,000	NA	5 U	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	- -	5	- -	800,000	NA	4 U	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	- -	11	- -	4,500,000	NA	10 U	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	- -	380	- -	7,870,000	NA	5 U	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	- -	- -	- -	270,000	NA	5 U	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	- -	- -	- -	6,740	NA	5 U	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	- -	18	1,100,000	22,000,000	NA	5 U	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	- -	19	25,000	24,600	NA	5 U	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	- -	- -	- -	2,500,000	NA	5 U	NA	NA	NA	NA	NA

Table E-1

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	70-164R 06/07/13	70-165 09/26/01	70-165 06/22/02	70-165 03/28/03	70-165 10/07/04	70-165 10/29/07	70-165 09/16/08
3&4-Methylphenol	ug/L	- -	- -	- -	- -	NA	10 UJ	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	- -	0.3	- -	3,110	NA	20 U	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	NA	20 UJ	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	ug/L	- -	7.4	- -	3,900,000	NA	5 U	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	NA	NA	NA
Acenaphthene	ug/L	- -	38	4,200	4,240	NA	5 U	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	- -	- -	3,900	3,930	NA	5 U	NA	NA	NA	NA	NA
Acetophenone	ug/L	- -	- -	6,100,000	6,100,000	NA	5 U	NA	NA	NA	NA	NA
Anthracene	ug/L	- -	- -	43	43.4	NA	5 U	NA	NA	NA	NA	NA
Atrazine	ug/L	- -	7.3	- -	70,000	NA	5 U	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	- -	- -	- -	9.4	NA	1 U	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	- -	- -	- -	1.62	NA	2 U	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	- -	- -	- -	1.5	NA	2 U	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	- -	- -	- -	0.26	NA	5 U	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	- -	- -	- -	0.8	NA	5 U	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000	1	210,000	17,200,000	NA	1 U	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	- -	25	- -	340	NA	1.02 J	NA	NA	NA	NA	NA
Butylbenzylphthalate	ug/L	- -	67	- -	2,690	NA	5 U	NA	NA	NA	NA	NA
Caprolactam	ug/L	- -	- -	- -	5,250,000,000	NA	10 U	NA	NA	NA	NA	NA
Carbazole	ug/L	- -	10	- -	7,480	NA	10 U	NA	NA	NA	NA	NA
Chrysene	ug/L	- -	- -	- -	1.6	NA	5 U	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/L	- -	- -	- -	2.49	NA	2 U	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	- -	4	10,000	10,000	NA	4 U	NA	NA	NA	NA	NA
Diethylphthalate	ug/L	- -	110	- -	1,080,000	NA	5 U	NA	NA	NA	NA	NA
Dimethylphthalate	ug/L	- -	- -	- -	4,190,000	NA	5 U	NA	NA	NA	NA	NA
Di-n-Butylphthalate	ug/L	- -	9.7	- -	11,200	NA	1.76 J	NA	NA	NA	NA	NA
Di-n-Octylphthalate	ug/L	- -	- -	- -	3,000	NA	5 U	NA	NA	NA	NA	NA
Fluoranthene	ug/L	- -	1.6	210	206	NA	2 U	NA	NA	NA	NA	NA
Fluorene	ug/L	- -	12	2,000	1,980	NA	5 U	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/L	- -	0.2	3,000	6,200	NA	1 U	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	- -	0.053	3,200	3,230	NA	5 U	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	- -	- -	420	1,800	NA	5 U	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	- -	6.7	50,000	50,000	NA	5 U	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	- -	- -	- -	0.022	NA	2 U	NA	NA	NA	NA	NA
Isophorone	ug/L	- -	1,300	- -	12,000,000	NA	5 U	NA	NA	NA	NA	NA
Methylphenols, Total	ug/L	- -	30	- -	28,000,000	NA	5 U	NA	NA	NA	NA	NA
Naphthalene	ug/L	- -	11	31,000	31,000	NA	5 U	NA	NA	NA	NA	NA

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Priority #6 - AOI 81-2 Cutting Oil Area
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RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	70-164R 06/07/13	70-165 09/26/01	70-165 06/22/02	70-165 03/28/03	70-165 10/07/04	70-165 10/29/07	70-165 09/16/08
Nitrobenzene	ug/L	- -	180	550,000	2,090,000	NA	2 U	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	ug/L	- -	- -	- -	9,890,000	NA	5 U	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	- -	- -	- -	35,100	NA	5 U	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	- -	2.8	- -	1,850,000	NA	20 U	NA	NA	NA	NA	NA
Phenanthrene	ug/L	- -	2	1,000	1,000	NA	5 U	NA	NA	NA	NA	NA
Phenol	ug/L	- -	450	- -	82,800,000	NA	5 U	NA	NA	NA	NA	NA
Pyrene	ug/L	- -	- -	140	135	NA	5 U	NA	NA	NA	NA	NA
PCB												
Aroclor-1016	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1221	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA	NA	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA	NA	NA
Total PCBs	ug/L	- -	0.2	45	44.7	NA	0.1 U	NA	NA	NA	NA	NA
PCB-Dissolved												
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.12 U	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.12 U	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.12 U	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.12 U	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.12 U	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.12 U	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.12 U	NA	NA	NA	NA	NA
Total PCBs (Dissolved)	ug/L	- -	0.2	45	44.7	NA	0.12 U	NA	NA	NA	NA	NA
Inorganic												
Antimony	ug/L	- -	130	- -	- -	NA	NA	1.2 U	0.6 J	NA	NA	NA
Arsenic	ug/L	- -	10	- -	- -	NA	NA	2.7	2.9	NA	NA	NA
Barium	ug/L	- -	1,300	- -	- -	NA	NA	20	43	NA	NA	NA
Beryllium	ug/L	- -	32	- -	- -	NA	NA	0.4 U	0.4 U	NA	NA	NA
Cadmium	ug/L	- -	4.8	- -	- -	NA	NA	0.064 J	0.2 U	NA	NA	NA
Chromium Total	ug/L	- -	170	- -	- -	NA	NA	0.42 J	0.93	NA	NA	NA
Cobalt	ug/L	- -	100	- -	- -	NA	NA	1.9	1.2	NA	NA	NA
Copper	ug/L	- -	22	- -	- -	NA	NA	4.8	8.2	NA	NA	NA
Cyanide (total)	ug/L	- -	5.2	- -	- -	NA	5 U	5 U	5 UJ	NA	NA	NA
Lead	ug/L	- -	47	- -	- -	NA	NA	0.23 J	27	**55 (GSI (2013))**	**54 (GSI (2013))**	**90 (GSI (2013)) [92 (GSI (2013))]**
Manganese	ug/L	- -	4,900	- -	- -	NA	NA	1,200 J	460	NA	NA	NA
Mercury	ug/L	- -	0.0013	56	56	NA	0.2 U	0.2 U	0.2 U	NA	NA	NA
Nickel	ug/L	- -	120	- -	- -	NA	NA	4.2	21	NA	NA	NA
Selenium	ug/L	- -	5	- -	- -	**6 (GSI (2013))**	NA	3.1	**5.3 (GSI (2013))**	NA	NA	NA
Silver	ug/L	- -	0.2	- -	- -	NA	NA	0.4 UJ	0.4 U	NA	NA	NA
Thallium	ug/L	- -	3.7	- -	- -	NA	NA	0.2 U	0.2 U	NA	NA	NA
Vanadium	ug/L	- -	27	- -	- -	NA	NA	0.3 J	0.2 J	NA	NA	NA
Zinc	ug/L	- -	280	- -	- -	NA	NA	29	17	NA	NA	NA

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Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	70-164R 06/07/13	70-165 09/26/01	70-165 06/22/02	70-165 03/28/03	70-165 10/07/04	70-165 10/29/07	70-165 09/16/08
Inorganic-Dissolved												
Antimony (Dissolved)	ug/L	- -	130	- -	- -	NA	1.3	1.7	NA	NA	NA	NA
Arsenic (Dissolved)	ug/L	- -	10	- -	- -	NA	1.3 J	2.9	NA	NA	NA	NA
Barium (Dissolved)	ug/L	- -	1,300	- -	- -	NA	37	17	NA	NA	NA	NA
Beryllium (Dissolved)	ug/L	- -	32	- -	- -	NA	0.4 U	0.4 U	NA	NA	NA	NA
Cadmium (Dissolved)	ug/L	- -	4.8	- -	- -	NA	0.2 U	0.2 U	NA	NA	NA	NA
Chromium Total (Dissolved)	ug/L	- -	170	- -	- -	NA	0.6 U	0.6 U	NA	NA	NA	NA
Cobalt (Dissolved)	ug/L	- -	100	- -	- -	NA	1.1	1.7	NA	NA	NA	NA
Copper (Dissolved)	ug/L	- -	22	- -	- -	NA	5.7	15	NA	NA	NA	NA
Cyanide (dissolved)	ug/L	- -	5.2	- -	- -	NA	5 U	5 U	NA	NA	NA	NA
Lead (Dissolved)	ug/L	- -	47	- -	- -	NA	19	0.4 U	NA	NA	NA	NA
Manganese (Dissolved)	ug/L	- -	4,900	- -	- -	NA	720 J	1,100 J	NA	NA	NA	NA
Mercury (Dissolved)	ug/L	- -	0.0013	- -	- -	NA	0.2 U	0.2 U	NA	NA	NA	NA
Nickel (Dissolved)	ug/L	- -	120	- -	- -	NA	14	3.5	NA	NA	NA	NA
Selenium (Dissolved)	ug/L	- -	5	- -	- -	NA	4.2 J	2.7	NA	NA	NA	NA
Silver (Dissolved)	ug/L	- -	0.2	- -	- -	NA	0.4 UJ	0.4 UJ	NA	NA	NA	NA
Thallium (Dissolved)	ug/L	- -	3.7	- -	- -	NA	0.2 U	0.2 U	NA	NA	NA	NA
Vanadium (Dissolved)	ug/L	- -	27	- -	- -	NA	0.8 U	0.8 U	NA	NA	NA	NA
Zinc (Dissolved)	ug/L	- -	280	- -	- -	NA	13	10	NA	NA	NA	NA
Field Parameters												
Conductivity Field	mS/cm	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.843
ORP, Field	millivolts	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	145.2
pH Field	s.u.	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	6.63
Temperature, Ambient	deg f	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	60
Temperature, Field	Deg C	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	19.33
Turbidity (Field)	NTU	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	2.35
Field Parameters-Filtered												
Dissolved Oxygen, Field	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	240

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RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	70-165 09/24/09	70-165 10/18/10	70-165 10/24/11	70-165 11/07/12	RFI-81-50 04/04/05	RFI-81-50 11/02/06
VOC											
1,1,1,2-Tetrachloroethane	ug/L	- -	- -	96,000	1,100,000	NA	1 U	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/L	- -	89	1,300,000	1,330,000	1 U	1 U	1 U	1 U	NA	1 U
1,1,2,2-Tetrachloroethane	ug/L	- -	78	77,000	2,970,000	1 U	1 U	1 U	1 U	NA	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	- -	32	170,000	170,000	30 U	NA	30 U	30 U	NA	30 U
1,1,2-Trichloroethane	ug/L	- -	330	110,000	4,420,000	1 U	1 U	1 U	1 U	NA	1 U
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	1 U	1 U	1 U	1 U	NA	1 U
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	1 U	1 U	1 U	1 U	NA	1 U
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA	NA
1,2,3-Trichloropropane	ug/L	- -	- -	18,000	1,900,000	NA	1 U	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	- -	NA	1 U	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	- -	99	300,000	300,000	2 U	5 U	2 U	NA	NA	2 U
1,2,4-Trimethylbenzene	ug/L	56,000	17	56,000	55,890	NA	1 U	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	- -	- -	1,200	1,230	1 U	5 U	1 U	NA	NA	1 U
1,2-Dibromoethane	ug/L	- -	5.7	15,000	4,200,000	1 U	1 U	1 U	NA	NA	1 U
1,2-Dichlorobenzene	ug/L	- -	13	160,000	156,000	1 U	1 U	1 U	NA	NA	1 U
1,2-Dichloroethane	ug/L	2,500,000	360	59,000	8,520,000	1 U	1 U	1 U	NA	NA	1 U
1,2-Dichloropropane	ug/L	550,000	230	36,000	2,800,000	1 U	1 U	1 U	NA	NA	1 U
1,3,5-Trimethylbenzene	ug/L	- -	45	61,000	61,150	NA	1 U	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/L	- -	28	41,000	111,000	0.1	1 U	1 U	NA	NA	1 U
1,4-Dichlorobenzene	ug/L	- -	17	74,000	73,800	1 U	1 U	1 U	NA	NA	1 U
2-Butanone	ug/L	- -	2,200	240,000,000	240,000,000	20 U	30 UJ	20 U	NA	NA	20 UJ
2-Hexanone	ug/L	- -	- -	8,700,000	16,000,000	50 U	50 UJ	50 U	NA	NA	50 UJ
2-Methylnaphthalene	ug/L	- -	19	25,000	24,600	NA	5 U	NA	NA	NA	NA
4-Methyl-2-pentanone	ug/L	- -	- -	20,000,000	20,000,000	10 U	50 U	10 U	NA	NA	10 U
Acetone	ug/L	15,000,000	1,700	1,000,000,000	1,000,000,000	2	50 UJ	20 U	NA	NA	20 UJ
Acrylonitrile	ug/L	6,400,000	2	190,000	75,000,000	NA	2 U	NA	NA	NA	NA
Benzene	ug/L	68,000	200	35,000	1,750,000	1 U	1 U	1 U	NA	NA	1 U
Bromobenzene	ug/L	- -	- -	390,000	413,000	NA	1 U	NA	NA	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	- -	NA	1 U	NA	NA	NA	NA
Bromodichloromethane	ug/L	- -	- -	37,000	6,740,000	1 U	1 U	1 U	NA	NA	1 U
Bromoform	ug/L	- -	- -	3,100,000	3,100,000	1 U	1 U	1 U	NA	NA	1 U
Bromomethane	ug/L	- -	35	9,000	14,500,000	2 U	5 U	2 U	NA	NA	2 U
Carbon Disulfide	ug/L	13,000	- -	550,000	1,190,000	5 U	5 U	5 U	NA	NA	5 U
Carbon Tetrachloride	ug/L	- -	45	2,400	793,000	1 U	1 U	1 U	NA	NA	1 U
Chlorobenzene	ug/L	160,000	25	470,000	472,000	1 U	1 U	1 U	NA	NA	1 U
Chloroethane	ug/L	110,000	1,100	5,700,000	5,740,000	1 U	5 U	1 U	NA	NA	1 U
Chloroform	ug/L	- -	350	180,000	7,920,000	1 U	1 U	1 U	NA	NA	1 U
Chloromethane	ug/L	36,000	- -	45,000	6,340,000	1 U	5 U	1 U	NA	NA	1 U
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	1 U	1 U	1 U	1 U	NA	1 U
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	NA	1 UJ
Cyclohexane	ug/L	- -	- -	- -	- -	1 U	NA	1 U	1 U	NA	1 U
Dibromochloromethane	ug/L	- -	- -	110,000	2,600,000	1 U	5 U	1 U	1 U	NA	1 U
Dibromomethane	ug/L	- -	- -	- -	11,000,000	NA	5 U	NA	NA	NA	NA
Dichlorodifluoromethane	ug/L	- -	- -	300,000	300,000	1 U	5 U	1 U	1 U	NA	1 U

Table E-1

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	70-165 09/24/09	70-165 10/18/10	70-165 10/24/11	70-165 11/07/12	RFI-81-50 04/04/05	RFI-81-50 11/02/06
Diethyl ether	ug/L	650,000	- -	61,000,000	61,000,000	NA	10 U	NA	NA	NA	NA
Ethylbenzene	ug/L	43,000	18	170,000	169,000	1 U	1 U	1 U	1 U	NA	1 U
Hexachloroethane	ug/L	- -	6.7	50,000	50,000	NA	5 U	NA	NA	NA	NA
Iodomethane	ug/L	- -	- -	- -	- -	NA	1 U	NA	NA	NA	NA
Isopropylbenzene	ug/L	29,000	28	56,000	56,000	1 U	5 U	1 U	1 U	NA	1 U
m&p-Xylene	ug/L	- -	- -	- -	- -	1 U	2 U	2 U	2 U	NA	0.1 J
Methyl acetate	ug/L	- -	- -	- -	- -	10 U	NA	10 U	10 U	NA	10 U
Methyl tert-butyl ether	ug/L	- -	7,100	47,000,000	46,800,000	5 U	5 U	5 U	5 U	NA	NA
Methylcyclohexane	ug/L	- -	- -	- -	- -	20 U	NA	20 U	20 U	NA	NA
Methylene Chloride	ug/L	- -	1,500	1,400,000	17,000,000	5 U	5 U	5 U	5 U	NA	NA
Naphthalene	ug/L	- -	11	31,000	31,000	NA	5 U	5 U	5 U	NA	NA
n-Butylbenzene	ug/L	- -	- -	- -	- -	NA	1 U	NA	NA	NA	NA
n-Propylbenzene	ug/L	- -	- -	- -	- -	NA	1 U	1 U	1 U	NA	NA
o-Xylene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	NA	NA
p-Isopropyltoluene	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA	NA
sec-Butylbenzene	ug/L	- -	- -	- -	- -	NA	1 U	NA	NA	NA	NA
Styrene	ug/L	140,000	80	310,000	310,000	1 U	1 U	1 U	1 U	NA	NA
tert-Butylbenzene	ug/L	- -	- -	- -	- -	NA	1 U	NA	NA	NA	NA
Tetrachloroethene	ug/L	- -	60	170,000	200,000	1 U	1 U	1 U	1 U	NA	NA
Tetrahydrofuran	ug/L	60,000	11,000	16,000,000	1,000,000,000	NA	90 U	NA	NA	NA	NA
Toluene	ug/L	61,000	270	530,000	526,000	0.1	1 U	1 U	1 U	NA	NA
trans-1,2-Dichloroethene	ug/L	230,000	1,500	200,000	6,300,000	1 U	1 U	1 U	1 U	NA	NA
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	NA	NA
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	- -	NA	1 U	NA	NA	NA	NA
Trichloroethene	ug/L	- -	200	4,900	1,100,000	1 U	1 U	1 U	1 U	NA	NA
Trichlorofluoromethane	ug/L	- -	- -	1,100,000	1,100,000	1 U	1 U	1 U	1 U	NA	NA
Vinyl Chloride	ug/L	33,000	13	13,000	2,760,000	1 U	1 U	1 U	1 U	NA	NA
Xylenes (total)	ug/L	70,000	41	190,000	186,000	1 U	1 U	1 U	1 U	NA	NA
SVOC											
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	- -	- -	- -	1,200,000	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	- -	5	- -	800,000	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	- -	11	- -	4,500,000	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	- -	380	- -	7,870,000	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	- -	- -	- -	270,000	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	- -	- -	- -	6,740	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	- -	18	1,100,000	22,000,000	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	- -	19	25,000	24,600	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	- -	- -	- -	2,500,000	NA	NA	NA	NA	NA	NA

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Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	70-165 09/24/09	70-165 10/18/10	70-165 10/24/11	70-165 11/07/12	RFI-81-50 04/04/05	RFI-81-50 11/02/06
3&4-Methylphenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	- -	0.3	- -	3,110	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	ug/L	- -	7.4	- -	3,900,000	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	- -	38	4,200	4,240	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	- -	- -	3,900	3,930	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	- -	- -	6,100,000	6,100,000	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	- -	- -	43	43.4	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	- -	7.3	- -	70,000	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	- -	- -	- -	9.4	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	- -	- -	- -	1.62	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	- -	- -	- -	1.5	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	- -	- -	- -	0.26	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	- -	- -	- -	0.8	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000	1	210,000	17,200,000	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	- -	25	- -	340	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	ug/L	- -	67	- -	2,690	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	- -	- -	- -	5,250,000,000	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	- -	10	- -	7,480	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	- -	- -	- -	1.6	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/L	- -	- -	- -	2.49	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	- -	4	10,000	10,000	NA	NA	NA	NA	NA	NA
Diethylphthalate	ug/L	- -	110	- -	1,080,000	NA	NA	NA	NA	NA	NA
Dimethylphthalate	ug/L	- -	- -	- -	4,190,000	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	ug/L	- -	9.7	- -	11,200	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	ug/L	- -	- -	- -	3,000	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	- -	1.6	210	206	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	- -	12	2,000	1,980	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/L	- -	0.2	3,000	6,200	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	- -	0.053	3,200	3,230	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	- -	- -	420	1,800	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	- -	6.7	50,000	50,000	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	- -	- -	- -	0.022	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	- -	1,300	- -	12,000,000	NA	NA	NA	NA	NA	NA
Methylphenols, Total	ug/L	- -	30	- -	28,000,000	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	- -	11	31,000	31,000	NA	NA	NA	NA	NA	NA

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Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	70-165 09/24/09	70-165 10/18/10	70-165 10/24/11	70-165 11/07/12	RFI-81-50 04/04/05	RFI-81-50 11/02/06
Nitrobenzene	ug/L	- -	180	550,000	2,090,000	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	ug/L	- -	- -	- -	9,890,000	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	- -	- -	- -	35,100	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	- -	2.8	- -	1,850,000	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	- -	2	1,000	1,000	NA	NA	NA	NA	NA	NA
Phenol	ug/L	- -	450	- -	82,800,000	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	- -	- -	140	135	NA	NA	NA	NA	NA	NA
PCB											
Aroclor-1016	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Aroclor-1221	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Total PCBs	ug/L	- -	0.2	45	44.7	NA	NA	NA	NA	NA	NA
PCB-Dissolved											
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Total PCBs (Dissolved)	ug/L	- -	0.2	45	44.7	NA	NA	NA	NA	NA	NA
Inorganic											
Antimony	ug/L	- -	130	- -	- -	NA	NA	NA	NA	NA	NA
Arsenic	ug/L	- -	10	- -	- -	NA	NA	NA	NA	NA	NA
Barium	ug/L	- -	1,300	- -	- -	NA	NA	NA	NA	NA	NA
Beryllium	ug/L	- -	32	- -	- -	NA	NA	NA	NA	NA	NA
Cadmium	ug/L	- -	4.8	- -	- -	NA	NA	NA	NA	NA	NA
Chromium Total	ug/L	- -	170	- -	- -	NA	NA	NA	NA	NA	NA
Cobalt	ug/L	- -	100	- -	- -	NA	NA	NA	NA	NA	NA
Copper	ug/L	- -	22	- -	- -	NA	NA	NA	NA	NA	NA
Cyanide (total)	ug/L	- -	5.2	- -	- -	NA	NA	NA	NA	NA	NA
Lead	ug/L	- -	47	- -	- -	**48.9 (GSI (2013)) [49.2 (GSI (2013))]**	**381 J (GSI (2013)) [83 J (GSI (2013))]**	NA	NA	3 U [3 U]	NA
Manganese	ug/L	- -	4,900	- -	- -	NA	NA	NA	NA	NA	NA
Mercury	ug/L	- -	0.0013	56	56	NA	NA	NA	NA	NA	NA
Nickel	ug/L	- -	120	- -	- -	NA	NA	NA	NA	NA	NA
Selenium	ug/L	- -	5	- -	- -	NA	NA	NA	NA	NA	NA
Silver	ug/L	- -	0.2	- -	- -	NA	NA	NA	NA	NA	NA
Thallium	ug/L	- -	3.7	- -	- -	NA	NA	NA	NA	NA	NA
Vanadium	ug/L	- -	27	- -	- -	NA	NA	NA	NA	NA	NA
Zinc	ug/L	- -	280	- -	- -	NA	NA	NA	NA	NA	NA

Table E-1

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	70-165 09/24/09	70-165 10/18/10	70-165 10/24/11	70-165 11/07/12	RFI-81-50 04/04/05	RFI-81-50 11/02/06
Inorganic-Dissolved											
Antimony (Dissolved)	ug/L	- -	130	- -	- -	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	ug/L	- -	10	- -	- -	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	ug/L	- -	1,300	- -	- -	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	ug/L	- -	32	- -	- -	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	ug/L	- -	4.8	- -	- -	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	ug/L	- -	170	- -	- -	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	ug/L	- -	100	- -	- -	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	ug/L	- -	22	- -	- -	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	ug/L	- -	5.2	- -	- -	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	ug/L	- -	47	- -	- -	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	ug/L	- -	4,900	- -	- -	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	ug/L	- -	0.0013	- -	- -	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	ug/L	- -	120	- -	- -	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	ug/L	- -	5	- -	- -	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	ug/L	- -	0.2	- -	- -	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	ug/L	- -	3.7	- -	- -	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	ug/L	- -	27	- -	- -	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	ug/L	- -	280	- -	- -	NA	NA	NA	NA	NA	NA
Field Parameters											
Conductivity Field	mS/cm	- -	- -	- -	- -	1.55	NA	NA	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	- -	10.4 -	NA	NA	NA	NA	NA
pH Field	s.u.	- -	- -	- -	- -	8.24	NA	NA	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	- -	67	NA	NA	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	- -	17.01	NA	NA	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	- -	2.5	NA	NA	NA	NA	NA
Field Parameters-Filtered											
Dissolved Oxygen, Field	ug/L	- -	- -	- -	- -	140	NA	NA	NA	NA	NA

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Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	70-165 11/07/12	RFI-81-50 11/02/06	RFI-81-50 10/31/07	RFI-81-50 09/16/08	RFI-81-50 09/24/09	RFI-81-50 10/18/10	RFI-81-50 10/24/11	RFI-81-50 11/08/12
VOC													
1,1,1,2-Tetrachloroethane	ug/L	- -	- -	96,000	1,100,000	NA	NA	NA	NA	NA	1 U	NA	NA
1,1,1-Trichloroethane	ug/L	- -	89	1,300,000	1,330,000	NA	NA	1 U	1 U	1 U	1 U	NA	NA
1,1,2,2-Tetrachloroethane	ug/L	- -	78	77,000	2,970,000	NA	NA	1 U	1 U	1 U	1 U	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	- -	32	170,000	170,000	NA	NA	30 U	30 U	30 U	NA	NA	NA
1,1,2-Trichloroethane	ug/L	- -	330	110,000	4,420,000	NA	NA	1 U	1 U	1 U	1 U	NA	NA
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	NA	NA	1 U	1 U	1 U	1 U	NA	NA
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	NA	NA	1 U	1 U	1 U	1 U	NA	NA
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	5 U	NA	NA
1,2,3-Trichloropropane	ug/L	- -	- -	18,000	1,900,000	NA	NA	NA	NA	NA	1 U	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	1 U	NA	NA
1,2,4-Trichlorobenzene	ug/L	- -	99	300,000	300,000	2 U	NA	2 U	2 U	2 U	5 U	NA	NA
1,2,4-Trimethylbenzene	ug/L	56,000	17	56,000	55,890	NA	NA	NA	NA	NA	1 U	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	- -	- -	1,200	1,230	1 U	NA	1 U	1 U	1 U	5 U	NA	NA
1,2-Dibromoethane	ug/L	- -	5.7	15,000	4,200,000	1 U	NA	1 U	1 U	1 U	1 U	NA	NA
1,2-Dichlorobenzene	ug/L	- -	13	160,000	156,000	1 U	NA	1 U	1 U	1 U	1 U	NA	NA
1,2-Dichloroethane	ug/L	2,500,000	360	59,000	8,520,000	1 U	NA	1 U	1 U	1 U	1 U	NA	NA
1,2-Dichloropropane	ug/L	550,000	230	36,000	2,800,000	1 U	NA	1 U	1 U	1 U	1 U	NA	NA
1,3,5-Trimethylbenzene	ug/L	- -	45	61,000	61,150	NA	NA	NA	NA	NA	1 U	NA	NA
1,3-Dichlorobenzene	ug/L	- -	28	41,000	111,000	1 U	NA	1 U	1 U	1 U	1 U	NA	NA
1,4-Dichlorobenzene	ug/L	- -	17	74,000	73,800	1 U	NA	1 U	1 U	1 U	1 U	NA	NA
2-Butanone	ug/L	- -	2,200	240,000,000	240,000,000	20 U	NA	20 U	20 U	20 U	30 UJ	NA	NA
2-Hexanone	ug/L	- -	- -	8,700,000	16,000,000	50 U	NA	50 U	50 UJ	50 U	50 UJ	NA	NA
2-Methylnaphthalene	ug/L	- -	19	25,000	24,600	NA	NA	NA	NA	NA	5 U	NA	NA
4-Methyl-2-pentanone	ug/L	- -	- -	20,000,000	20,000,000	10 U	NA	10 U	10 U	10 U	50 U	NA	NA
Acetone	ug/L	15,000,000	1,700	1,000,000,000	1,000,000,000	20 U	NA	20 U	20 U	20 U	50 UJ	NA	NA
Acrylonitrile	ug/L	6,400,000	2	190,000	75,000,000	NA	NA	NA	NA	NA	2 U	NA	NA
Benzene	ug/L	68,000	200	35,000	1,750,000	1 U	NA	1 U	1 U	1 U	1 U	NA	NA
Bromobenzene	ug/L	- -	- -	390,000	413,000	NA	NA	NA	NA	NA	1 U	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	1 U	NA	NA
Bromodichloromethane	ug/L	- -	- -	37,000	6,740,000	1 U	NA	1 U	1 U	1 U	1 U	NA	NA
Bromoform	ug/L	- -	- -	3,100,000	3,100,000	1 U	NA	1 U	1 U	1 U	1 U	NA	NA
Bromomethane	ug/L	- -	35	9,000	14,500,000	2 U	NA	2 U	2 UJ	2 U	5 U	NA	NA
Carbon Disulfide	ug/L	13,000	- -	550,000	1,190,000	5 U	NA	5 U	5 U	5 U	5 U	NA	NA
Carbon Tetrachloride	ug/L	- -	45	2,400	793,000	1 U	NA	1 U	1 U	1 U	1 U	NA	NA
Chlorobenzene	ug/L	160,000	25	470,000	472,000	1 U	NA	1 U	1 U	1 U	1 U	NA	NA
Chloroethane	ug/L	110,000	1,100	5,700,000	5,740,000	1 U	NA	1 U	1 UJ	1 U	5 U	NA	NA
Chloroform	ug/L	- -	350	180,000	7,920,000	1 U	NA	1 U	1 U	1 U	1 U	NA	NA
Chloromethane	ug/L	36,000	- -	45,000	6,340,000	1 U	NA	1 U	1 U	1 U	5 U	NA	NA
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	NA	NA	1 U	1 U	1 U	1 U	NA	NA
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	NA	NA	1 U	1 U	1 U	1 U	NA	NA
Cyclohexane	ug/L	- -	- -	- -	- -	NA	NA	1 U	1 U	1 U	NA	NA	NA
Dibromochloromethane	ug/L	- -	- -	110,000	2,600,000	NA	NA	1 U	1 U	1 U	5 U	NA	NA
Dibromomethane	ug/L	- -	- -	- -	11,000,000	NA	NA	NA	NA	NA	5 U	NA	NA
Dichlorodifluoromethane	ug/L	- -	- -	300,000	300,000	NA	NA	1 U	1 U	1 U	5 U	NA	NA

Table E-1

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	70-165 11/07/12	RFI-81-50 11/02/06	RFI-81-50 10/31/07	RFI-81-50 09/16/08	RFI-81-50 09/24/09	RFI-81-50 10/18/10	RFI-81-50 10/24/11	RFI-81-50 11/08/12
Diethyl ether	ug/L	650,000	- -	61,000,000	61,000,000	NA	NA	NA	NA	NA	10 U	NA	NA
Ethylbenzene	ug/L	43,000	18	170,000	169,000	NA	NA	1 U	1 U	1 U	1 U	NA	NA
Hexachloroethane	ug/L	- -	6.7	50,000	50,000	NA	NA	NA	NA	NA	5 U	NA	NA
Iodomethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	1 U	NA	NA
Isopropylbenzene	ug/L	29,000	28	56,000	56,000	NA	NA	1 U	1 U	1 U	5 U	NA	NA
m&p-Xylene	ug/L	- -	- -	- -	- -	NA	NA	1 U	1 U	0.3	2 U	NA	NA
Methyl acetate	ug/L	- -	- -	- -	- -	NA	NA	10 U	10 U	10 U	NA	NA	NA
Methyl tert-butyl ether	ug/L	- -	7,100	47,000,000	46,800,000	NA	5 U	5 U	5 U	5 U	5 U	NA	NA
Methylcyclohexane	ug/L	- -	- -	- -	- -	NA	20 U	20 U	20 U	20 U	NA	NA	NA
Methylene Chloride	ug/L	- -	1,500	1,400,000	17,000,000	NA	5 U	5 U	5 U	5 U	5 U	NA	NA
Naphthalene	ug/L	- -	11	31,000	31,000	NA	NA	NA	NA	NA	5 U	NA	NA
n-Butylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	1 U	NA	NA
n-Propylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	1 U	NA	NA
o-Xylene	ug/L	- -	- -	- -	- -	NA	1 U	1 U	1 U	1 U	1 U	NA	NA
p-Isopropyltoluene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	5 U	NA	NA
sec-Butylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	1 U	NA	NA
Styrene	ug/L	140,000	80	310,000	310,000	NA	1 U	1 U	1 U	1 U	1 U	NA	NA
tert-Butylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	1 U	NA	NA
Tetrachloroethene	ug/L	- -	60	170,000	200,000	NA	1 U	1 U	1 U	1 U	1 U	NA	NA
Tetrahydrofuran	ug/L	60,000	11,000	16,000,000	1,000,000,000	NA	NA	NA	NA	NA	90 U	NA	NA
Toluene	ug/L	61,000	270	530,000	526,000	NA	1 U	1 U	1 U	0.2	1 U	NA	NA
trans-1,2-Dichloroethene	ug/L	230,000	1,500	200,000	6,300,000	NA	1 U	1 U	1 U	1 U	1 U	NA	NA
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	NA	1 U	1 U	1 U	1 U	1 U	NA	NA
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	1 U	NA	NA
Trichloroethene	ug/L	- -	200	4,900	1,100,000	NA	0.4 J	0.2 J	1 U	0.8	1 U	NA	NA
Trichlorofluoromethane	ug/L	- -	- -	1,100,000	1,100,000	NA	1 U	1 U	1 U	1 U	1 U	NA	NA
Vinyl Chloride	ug/L	33,000	13	13,000	2,760,000	NA	1 U	1 U	1 U	1 U	1 U	NA	NA
Xylenes (total)	ug/L	70,000	41	190,000	186,000	NA	1 U	1 U	1 U	1 U	1 U	NA	NA
SVOC													
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	- -	- -	- -	1,200,000	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	- -	5	- -	800,000	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	- -	11	- -	4,500,000	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	- -	380	- -	7,870,000	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	- -	- -	- -	270,000	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	- -	- -	- -	6,740	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	- -	18	1,100,000	22,000,000	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	- -	19	25,000	24,600	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	- -	- -	- -	2,500,000	NA	NA	NA	NA	NA	NA	NA	NA

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RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	70-165 11/07/12	RFI-81-50 11/02/06	RFI-81-50 10/31/07	RFI-81-50 09/16/08	RFI-81-50 09/24/09	RFI-81-50 10/18/10	RFI-81-50 10/24/11	RFI-81-50 11/08/12
3&4-Methylphenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	- -	0.3	- -	3,110	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	ug/L	- -	7.4	- -	3,900,000	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	- -	38	4,200	4,240	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	- -	- -	3,900	3,930	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	- -	- -	6,100,000	6,100,000	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	- -	- -	43	43.4	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	- -	7.3	- -	70,000	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	- -	- -	- -	9.4	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	- -	- -	- -	1.62	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	- -	- -	- -	1.5	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	- -	- -	- -	0.26	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	- -	- -	- -	0.8	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000	1	210,000	17,200,000	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	- -	25	- -	340	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	ug/L	- -	67	- -	2,690	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	- -	- -	- -	5,250,000,000	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	- -	10	- -	7,480	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	- -	- -	- -	1.6	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/L	- -	- -	- -	2.49	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	- -	4	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	ug/L	- -	110	- -	1,080,000	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	ug/L	- -	- -	- -	4,190,000	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	ug/L	- -	9.7	- -	11,200	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	ug/L	- -	- -	- -	3,000	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	- -	1.6	210	206	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	- -	12	2,000	1,980	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/L	- -	0.2	3,000	6,200	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	- -	0.053	3,200	3,230	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	- -	- -	420	1,800	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	- -	6.7	50,000	50,000	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	- -	- -	- -	0.022	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	- -	1,300	- -	12,000,000	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	ug/L	- -	30	- -	28,000,000	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	- -	11	31,000	31,000	NA	NA	NA	NA	NA	NA	NA	NA

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Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	70-165 11/07/12	RFI-81-50 11/02/06	RFI-81-50 10/31/07	RFI-81-50 09/16/08	RFI-81-50 09/24/09	RFI-81-50 10/18/10	RFI-81-50 10/24/11	RFI-81-50 11/08/12
Nitrobenzene	ug/L	- -	180	550,000	2,090,000	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	ug/L	- -	- -	- -	9,890,000	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	- -	- -	- -	35,100	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	- -	2.8	- -	1,850,000	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	- -	2	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	- -	450	- -	82,800,000	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	- -	- -	140	135	NA	NA	NA	NA	NA	NA	NA	NA
PCB													
Aroclor-1016	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/L	- -	0.2	45	44.7	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved													
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (Dissolved)	ug/L	- -	0.2	45	44.7	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic													
Antimony	ug/L	- -	130	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	ug/L	- -	10	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/L	- -	1,300	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/L	- -	32	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/L	- -	4.8	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	ug/L	- -	170	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/L	- -	100	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/L	- -	22	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	ug/L	- -	5.2	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/L	- -	47	- -	- -	NA	NA	3 U	NA	3 U	NA	3 U	3 U
Manganese	ug/L	- -	4,900	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/L	- -	0.0013	56	56	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/L	- -	120	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/L	- -	5	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/L	- -	0.2	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	ug/L	- -	3.7	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/L	- -	27	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/L	- -	280	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA

Table E-1

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RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	70-165 11/07/12	RFI-81-50 11/02/06	RFI-81-50 10/31/07	RFI-81-50 09/16/08	RFI-81-50 09/24/09	RFI-81-50 10/18/10	RFI-81-50 10/24/11	RFI-81-50 11/08/12
Inorganic-Dissolved													
Antimony (Dissolved)	ug/L	- -	130	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	ug/L	- -	10	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	ug/L	- -	1,300	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	ug/L	- -	32	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	ug/L	- -	4.8	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	ug/L	- -	170	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	ug/L	- -	100	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	ug/L	- -	22	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	ug/L	- -	5.2	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	ug/L	- -	47	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	ug/L	- -	4,900	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	ug/L	- -	0.0013	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	ug/L	- -	120	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	ug/L	- -	5	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	ug/L	- -	0.2	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	ug/L	- -	3.7	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	ug/L	- -	27	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	ug/L	- -	280	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Field Parameters													
Conductivity Field	mS/cm	- -	- -	- -	- -	NA	NA	NA	0.915	1.224	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	- -	NA	NA	NA	16.1 -	16.6	NA	NA	NA
pH Field	s.u.	- -	- -	- -	- -	NA	NA	NA	6.89	7.07	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	- -	NA	NA	NA	60	65	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	- -	NA	NA	NA	19.68	17	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	- -	NA	NA	NA	1.76	3.56	NA	NA	NA
Field Parameters-Filtered													
Dissolved Oxygen, Field	ug/L	- -	- -	- -	- -	NA	NA	NA	120	330	NA	NA	NA

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-81-17 0 - 2 06/18/01	RFI-81-18 0 - 2 06/18/01	RFI-81-22 0 - 2 06/21/01
VOC											
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.038 U	0.038 U	0.038 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.075 U	0.076 U	0.077 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.16 U	0.16 U	0.16 U
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.038 U	0.038 U	0.038 U
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.038 U	0.038 U	0.038 U
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.038 U	0.038 U	0.038 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.16 UJ	0.16 UJ	0.16 UJ
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	0.16 UJ	0.16 UJ	0.16 UJ
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	**0.16 U**	**0.16 U**	**0.16 U**
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.075 U	0.076 U	0.077 U
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.038 U	0.038 U	0.038 U
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.038 U	0.038 U	0.038 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.075 U	0.076 U	0.077 U
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.075 U	0.076 U	0.077 U
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.27 U	0.27 U	0.5
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.27 U	0.27 U	0.27 U
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.27 U	0.27 U	0.27 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.27 U	0.27 U	1.7
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.038 U	0.062	0.56
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.075 U	0.076 U	0.077 U
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.075 U	0.076 U	0.077 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.16 U	0.16 U	0.16 U
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.16 U	0.16 U	0.039 J
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.038 U	0.038 U	0.038 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.038 U	0.038 U	0.038 U
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.16 U	0.16 U	0.16 U
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.038 U	0.038 U	0.038 U
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.038 U	0.038 U	0.038 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.038 U	0.038 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.16 U	0.16 U	3.8
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.075 U	0.076 U	0.077 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.075 U	0.076 U	0.077 U
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.038 U	0.057	**1.3 (GSIP (2013))**
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.16 U	0.033 J	1.2
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.075 U	0.2	4.8
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.16 U	0.16 U	0.16 U
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.27 U	0.27 U	0.27 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.043 J	0.29	11 D
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.16 U	0.16 U	0.16 UJ
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.15	4.3
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.038 U	0.038 U	0.038 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.038 U	0.038 U	0.038 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.038 U	0.23	4.4
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.038 U	0.038 U	0.038 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.038 U	0.038 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.038 U	0.038 U	0.038 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.075 U	0.076 U	0.077 U
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.038 U	0.038 U	0.038 U

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-81-17 0 - 2 06/18/01	RFI-81-18 0 - 2 06/18/01	RFI-81-22 0 - 2 06/21/01
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.038 U	0.15	**4.3 (GSIP (2013))**
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.95 UJ
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.95 U
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.95 UJ
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	**0.95 U**
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	**0.95 U**
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.95 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U	0.73 U	3.8 U
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.72 U	0.73 U	3.8 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.95 U
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.19 U	0.95 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	0.18 U	0.19 U	**0.95 U**
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.18 U	0.199	0.551 J
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.95 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U	0.73 U	3.8 U
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.95 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.36 U	0.37 U	1.9 U
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	0.72 UJ	0.73 U	**3.8 UJ**
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U	0.73 U	3.8 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.72 U	0.73 U	3.8 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.95 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	**0.95 U**
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U	0.73 U	3.8 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U	0.73 U	3.8 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U	0.73 U	3.8 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U	0.73 U	3.8 U
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	0.18 U	0.19 U	0.95 U
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.18 U	0.0425 J	0.95 U
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.18 U	0.19 U	0.95 U
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.18 U	0.0716 J	0.95 U
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	**0.18 U**	**0.19 U**	**0.95 U**
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.141 J	0.95 UJ
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.102 J	0.95 U
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	0.18 U	0.125 J	0.95 U
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	0.18 U	0.132 J	0.95 U
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	0.18 U	0.148 J	0.95 UJ
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.113 J	0.95 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.95 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	0.035 U	0.0444 U	**0.18 U**
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.95 U
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.114 J	0.95 U
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.95 U
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.95 U
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.14 J	0.261 J
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.0509 J	0.95 UJ
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	0.18 U	0.0654 J	0.216 J
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.95 U
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.95 U
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.95 U

Table E-2

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Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-81-17 0 - 2 06/18/01	RFI-81-18 0 - 2 06/18/01	RFI-81-22 0 - 2 06/21/01
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.95 U
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.18 U	0.193 J	0.95 U
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.18 U	0.19 U	0.95 U
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	0.18 U	0.19 U	**0.95 UJ**
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**0.18 U**	**0.19 U**	**0.95 U**
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	0.18 U	0.19 U	0.95 UJ
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.18 U	0.19 U	0.95 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.124 J	0.95 UJ
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.95 U
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.95 U
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.18 U	0.19 U	**0.95 U**
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.072 U	0.073 U	0.38 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.95 U
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.95 U
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	0.72 U	0.73 U	3.8 U
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	0.18 U	0.224 J	0.524 J
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.95 U
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.0402 J	0.229 J	0.245 J
PCB											
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.038 U	0.39 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.038 U	0.39 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.038 U	0.39 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.038 U	0.39 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.038 U	0.39 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.36	0.74	4.1
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.073	0.21	0.88
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.433	0.95	4.98
Inorganic											
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	R	R	0.16 J
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	**6.7 (GSIP (2013),SDBL (2013))**	**7.2 (GSIP (2013),SDBL (2013))**	**24 (GSIP (2013),SDBL (2013))**
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	26 J	56 J	**90 (SDBL (2013))**
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	0.11	0.24	0.62 J
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	0.13	0.45	0.65 J
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	5.2	**21 (SDBL (2013))**	**110 J (SDBL (2013))**
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	**4.1 (GSIP (2013))**	**4.9 (GSIP (2013))**	**5.5 (GSIP (2013))**
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	11 J	**44 J (SDBL (2013))**	**59 (SDBL (2013))**
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	0.046 J	**0.2 (GSIP (2013))**	**0.7 J (GSIP (2013),SDBL (2013))**
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	13 J	**63 J (SDBL (2013))**	**82 (SDBL (2013))**
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	**370 J (GSIP (2013))**	**370 J (GSIP (2013))**	**350 J (GSIP (2013))**
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	**0.071 U**	**0.0805 (GSIP (2013))**	**0.232 (GSIP (2013),SDBL (2013))**
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	13	**23 (SDBL (2013))**	**52 (SDBL (2013))**
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	0.18	**0.47 (GSIP (2013),SDBL (2013))**	**5.4 J (GSIP (2013),SDBL (2013))**
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	0.057 J	0.1 J	**0.29 U**
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	0.1 J	0.12 J	0.34 J
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	7.7	13	16
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	31	**69 (SDBL (2013))**	**200 (SDBL (2013))**
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	937,000	916,000	893,000

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-70-103-08 3 - 5 01/31/14	SB-70-103-08 5 - 7 01/31/14	SB-70-103-10 3 - 5 01/31/14	SB-70-103-10 5 - 7 01/31/14	SB-70-103-11 3 - 5 01/31/14	SB-70-103-11 5 - 7 01/31/14
VOC														
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-70-103-08 3 - 5 01/31/14	SB-70-103-08 5 - 7 01/31/14	SB-70-103-10 3 - 5 01/31/14	SB-70-103-10 5 - 7 01/31/14	SB-70-103-11 3 - 5 01/31/14	SB-70-103-11 5 - 7 01/31/14
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA
SVOC														
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA

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RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-70-103-08 3 - 5 01/31/14	SB-70-103-08 5 - 7 01/31/14	SB-70-103-10 3 - 5 01/31/14	SB-70-103-10 5 - 7 01/31/14	SB-70-103-11 3 - 5 01/31/14	SB-70-103-11 5 - 7 01/31/14
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA
PCB														
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	1 UY	0.5 UY	0.5 UY	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	1 UY	0.5 UY	0.5 UY	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	1 UY	0.5 UY	0.5 UY	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	1 UY	0.5 UY	0.5 UY	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	1 UY	0.5 UY	0.5 UY	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.7	4.7 Y	3.8 Y	3.5 Y	0.33 U	1.2
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	1 UY	0.5 UY	0.5 UY	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.7	4.7	3.8	3.5	0.33 U	1.2
Inorganic														
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA
Miscellaneous														
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	890,000	870,000	860,000	850,000	810,000	830,000

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-81-01 0 - 2 09/06/13	SB-81-01 3 - 5 09/06/13	SB-81-01 5 - 7 09/06/13	SB-81-01 7 - 9 09/06/13	SB-81-01 9 - 11 09/06/13	SB-81-02 0 - 2 09/06/13	SB-81-02 3 - 5 09/06/13	SB-81-02 5 - 7 09/06/13
VOC																
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA	NA

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-81-01 0 - 2 09/06/13	SB-81-01 3 - 5 09/06/13	SB-81-01 5 - 7 09/06/13	SB-81-01 7 - 9 09/06/13	SB-81-01 9 - 11 09/06/13	SB-81-02 0 - 2 09/06/13	SB-81-02 3 - 5 09/06/13	SB-81-02 5 - 7 09/06/13
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-81-01 0 - 2 09/06/13	SB-81-01 3 - 5 09/06/13	SB-81-01 5 - 7 09/06/13	SB-81-01 7 - 9 09/06/13	SB-81-01 9 - 11 09/06/13	SB-81-02 0 - 2 09/06/13	SB-81-02 3 - 5 09/06/13	SB-81-02 5 - 7 09/06/13
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
PCB																
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.5 UY	0.5 UY
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.5 UY	0.5 UY
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.5 UY	0.5 UY
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.5 UY	0.5 UY
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.5 UY	0.5 UY
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	4 Y	5 Y	3 Y
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.5 UY	0.5 UY
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	4	5	3
Inorganic																
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	970,000	940,000	850,000	800,000	860,000	910,000	930,000	860,000

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-81-02 7 - 9 09/06/13	SB-81-02 9 - 11 09/06/13	SB-81-03 0 - 2 09/09/13	SB-81-03 3 - 5 09/09/13	SB-81-03 5 - 7 09/09/13	SB-81-03 7 - 9 09/09/13	SB-81-03 9 - 11 09/09/13	SB-81-04 0 - 2 09/09/13
VOC																
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA	NA

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RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-81-02 7 - 9 09/06/13	SB-81-02 9 - 11 09/06/13	SB-81-03 0 - 2 09/09/13	SB-81-03 3 - 5 09/09/13	SB-81-03 5 - 7 09/09/13	SB-81-03 7 - 9 09/09/13	SB-81-03 9 - 11 09/09/13	SB-81-04 0 - 2 09/09/13
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-81-02 7 - 9 09/06/13	SB-81-02 9 - 11 09/06/13	SB-81-03 0 - 2 09/09/13	SB-81-03 3 - 5 09/09/13	SB-81-03 5 - 7 09/09/13	SB-81-03 7 - 9 09/09/13	SB-81-03 9 - 11 09/09/13	SB-81-04 0 - 2 09/09/13
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
PCB																
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	3 Y
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	3
Inorganic																
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	840,000	520,000	860,000	810,000	780,000	820,000	830,000	910,000

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-81-04 3 - 5 09/09/13	SB-81-04 5 - 7 09/09/13	SB-81-04 7 - 9 09/09/13	SB-81-04 9 - 11 09/09/13	SB-81-05 0 - 2 09/09/13	TW-70-101-1 0 - 2 12/04/13	TW-70-101-1 3 - 5 12/04/13	TW-70-101-1 7 - 9 12/04/13
VOC																
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA	NA

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-81-04 3 - 5 09/09/13	SB-81-04 5 - 7 09/09/13	SB-81-04 7 - 9 09/09/13	SB-81-04 9 - 11 09/09/13	SB-81-05 0 - 2 09/09/13	TW-70-101-1 0 - 2 12/04/13	TW-70-101-1 3 - 5 12/04/13	TW-70-101-1 7 - 9 12/04/13
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-81-04 3 - 5 09/09/13	SB-81-04 5 - 7 09/09/13	SB-81-04 7 - 9 09/09/13	SB-81-04 9 - 11 09/09/13	SB-81-05 0 - 2 09/09/13	TW-70-101-1 0 - 2 12/04/13	TW-70-101-1 3 - 5 12/04/13	TW-70-101-1 7 - 9 12/04/13
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
PCB																
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	2 UY	0.5 UY	0.6 UY	0.33 U	0.33 U	0.33 U	1 UY	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	2 UY	0.5 UY	0.6 UY	0.33 U	0.33 U	0.33 U	1 UY	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	2 UY	0.5 UY	0.6 UY	0.33 U	0.33 U	0.33 U	1 UY	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	2 UY	0.5 UY	0.6 UY	0.33 U	0.33 U	0.33 U	1 UY	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	2 UY	0.5 UY	0.6 UY	0.33 U	0.33 U	0.33 U	1 UY	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	10 Y	4 Y	3 Y	0.33 U	0.33 U	2.5	4 Y	0.8
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	2 UY	0.5 UY	0.6 UY	0.33 U	0.33 U	0.33 U	1 UY	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	10	4	3	0.33 U	0.33 U	2.5	4	0.8
Inorganic																
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	890,000	850,000	870,000	820,000	930,000	910,000	860,000	780,000

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-101-2 0 - 2 12/04/13	TW-70-101-2 3 - 5 12/04/13	TW-70-101-2 7 - 9 12/04/13	TW-70-101-3 0 - 2 12/05/13	TW-70-101-3 3 - 5 12/05/13	TW-70-101-3 7 - 9 12/05/13	TW-70-101-4 0 - 2 12/05/13
VOC															
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-101-2 0 - 2 12/04/13	TW-70-101-2 3 - 5 12/04/13	TW-70-101-2 7 - 9 12/04/13	TW-70-101-3 0 - 2 12/05/13	TW-70-101-3 3 - 5 12/05/13	TW-70-101-3 7 - 9 12/05/13	TW-70-101-4 0 - 2 12/05/13
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC															
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-101-2 0 - 2 12/04/13	TW-70-101-2 3 - 5 12/04/13	TW-70-101-2 7 - 9 12/04/13	TW-70-101-3 0 - 2 12/05/13	TW-70-101-3 3 - 5 12/05/13	TW-70-101-3 7 - 9 12/05/13	TW-70-101-4 0 - 2 12/05/13
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB															
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.6 UY	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.6 UY
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.6 UY	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.6 UY
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.6 UY	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.6 UY
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.6 UY	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.6 UY
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.6 UY	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.6 UY
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	2.9 Y	1.1	0.33 U	2.4 Y	0.33 U	0.33 U	1.8 Y
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.6 UY	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.6 UY
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	2.9	1.1	0.33 U	2.4	0.33 U	0.33 U	1.8
Inorganic															
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	860,000	870,000	820,000	840,000	820,000	800,000	820,000

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-101-4 3 - 5 12/05/13	TW-70-101-4 7 - 9 12/05/13	TW-70-101-5 0 - 2 12/05/13	TW-70-101-5 3 - 5 12/05/13	TW-70-101-5 7 - 9 12/05/13	TW-70-101-6 0 - 2 12/05/13	TW-70-101-6 3 - 5 12/05/13
VOC															
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-101-4 3 - 5 12/05/13	TW-70-101-4 7 - 9 12/05/13	TW-70-101-5 0 - 2 12/05/13	TW-70-101-5 3 - 5 12/05/13	TW-70-101-5 7 - 9 12/05/13	TW-70-101-6 0 - 2 12/05/13	TW-70-101-6 3 - 5 12/05/13
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC															
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-101-4 3 - 5 12/05/13	TW-70-101-4 7 - 9 12/05/13	TW-70-101-5 0 - 2 12/05/13	TW-70-101-5 3 - 5 12/05/13	TW-70-101-5 7 - 9 12/05/13	TW-70-101-6 0 - 2 12/05/13	TW-70-101-6 3 - 5 12/05/13
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB															
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	6 Y	1.4	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	6	1.4	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Inorganic															
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	840,000	820,000	880,000	730,000	800,000	790,000	850,000

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Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-101-6 7 - 9 12/05/13	TW-70-101-7 0 - 2 12/05/13	TW-70-101-7 3 - 5 12/05/13	TW-70-101-7 7 - 9 12/05/13	TW-70-103-1 0 - 2 12/10/13	TW-70-103-1 3 - 5 12/10/13
VOC														
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-101-6 7 - 9 12/05/13	TW-70-101-7 0 - 2 12/05/13	TW-70-101-7 3 - 5 12/05/13	TW-70-101-7 7 - 9 12/05/13	TW-70-103-1 0 - 2 12/10/13	TW-70-103-1 3 - 5 12/10/13
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA
SVOC														
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-101-6 7 - 9 12/05/13	TW-70-101-7 0 - 2 12/05/13	TW-70-101-7 3 - 5 12/05/13	TW-70-101-7 7 - 9 12/05/13	TW-70-103-1 0 - 2 12/10/13	TW-70-103-1 3 - 5 12/10/13
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA
PCB														
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U [1 UY]	0.33 U	0.6 UY	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U [1 UY]	0.33 U	0.6 UY	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U [1 UY]	0.33 U	0.6 UY	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U [1 UY]	0.33 U	0.6 UY	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U [1 UY]	0.33 U	0.6 UY	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	2.1 [5 Y]	0.33 U	3.9 Y	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U [1 UY]	0.33 U	0.6 UY	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.33 U	2.1 [5]	0.33 U	3.9	0.33 U
Inorganic														
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA
Miscellaneous														
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	820,000	880,000	840,000 [830,000]	830,000	890,000	850,000

Table E-2

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RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-103-1 7 - 9 12/10/13	TW-70-103-2 0 - 2 12/10/13	TW-70-103-2 3 - 5 12/10/13	TW-70-103-2 7 - 9 12/10/13	TW-70-103-3 0 - 2 12/11/13	TW-70-103-3 3 - 5 12/11/13	TW-70-103-3 7 - 9 12/11/13
VOC															
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-103-1 7 - 9 12/10/13	TW-70-103-2 0 - 2 12/10/13	TW-70-103-2 3 - 5 12/10/13	TW-70-103-2 7 - 9 12/10/13	TW-70-103-3 0 - 2 12/11/13	TW-70-103-3 3 - 5 12/11/13	TW-70-103-3 7 - 9 12/11/13
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC															
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-103-1 7 - 9 12/10/13	TW-70-103-2 0 - 2 12/10/13	TW-70-103-2 3 - 5 12/10/13	TW-70-103-2 7 - 9 12/10/13	TW-70-103-3 0 - 2 12/11/13	TW-70-103-3 3 - 5 12/11/13	TW-70-103-3 7 - 9 12/11/13
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB															
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	1.4	1	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	1.4	1	0.33 U	0.33 U	0.33 U	0.33 U
Inorganic															
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	850,000	910,000	910,000	810,000	940,000	870,000	780,000

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-103-4 0 - 2 12/11/13	TW-70-103-4 3 - 5 12/11/13	TW-70-103-4 7 - 9 12/11/13	TW-70-103-5 0 - 2 12/11/13	TW-70-103-5 3 - 5 12/11/13	TW-70-103-5 7 - 9 12/11/13	TW-70-103-6 0 - 2 12/11/13
VOC															
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-103-4 0 - 2 12/11/13	TW-70-103-4 3 - 5 12/11/13	TW-70-103-4 7 - 9 12/11/13	TW-70-103-5 0 - 2 12/11/13	TW-70-103-5 3 - 5 12/11/13	TW-70-103-5 7 - 9 12/11/13	TW-70-103-6 0 - 2 12/11/13
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC															
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-103-4 0 - 2 12/11/13	TW-70-103-4 3 - 5 12/11/13	TW-70-103-4 7 - 9 12/11/13	TW-70-103-5 0 - 2 12/11/13	TW-70-103-5 3 - 5 12/11/13	TW-70-103-5 7 - 9 12/11/13	TW-70-103-6 0 - 2 12/11/13
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB															
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.6 UY	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.6 UY	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.6 UY	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.6 UY	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.6 UY	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	4.5 Y	1.3	0.33 U	0.3 b	4.6 Y	2.4	2.5
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.6 UY	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	4.5	1.3	0.33 U	0.3	4.6	2.4	2.5
Inorganic															
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	880,000	870,000	860,000	850,000	870,000	840,000	880,000

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-103-6 3 - 5 12/11/13	TW-70-103-6 7 - 9 12/11/13	TW-70-103-7 0 - 2 12/11/13	TW-70-103-7 3 - 5 12/11/13	TW-70-103-7 7 - 9 12/11/13	TW-70-103-09 3 - 5 01/31/14
VOC														
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-103-6 3 - 5 12/11/13	TW-70-103-6 7 - 9 12/11/13	TW-70-103-7 0 - 2 12/11/13	TW-70-103-7 3 - 5 12/11/13	TW-70-103-7 7 - 9 12/11/13	TW-70-103-09 3 - 5 01/31/14
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA
SVOC														
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-103-6 3 - 5 12/11/13	TW-70-103-6 7 - 9 12/11/13	TW-70-103-7 0 - 2 12/11/13	TW-70-103-7 3 - 5 12/11/13	TW-70-103-7 7 - 9 12/11/13	TW-70-103-09 3 - 5 01/31/14
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA
PCB														
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	2 UY	0.6 UY	0.6 UY	0.33 U	0.33 U [0.33 U]	0.5 UY
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	2 UY	0.6 UY	0.6 UY	0.33 U	0.33 U [0.33 U]	0.5 UY
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	2 UY	0.6 UY	0.6 UY	0.33 U	0.33 U [0.33 U]	0.5 UY
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	2 UY	0.6 UY	0.6 UY	0.33 U	0.33 U [0.33 U]	0.5 UY
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	2 UY	0.6 UY	0.6 UY	0.33 U	0.33 U [0.33 U]	0.5 UY
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	11 Y	5.3 Y	4.7 Y	2.3	0.33 U [0.33 U]	3.5 Y
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	2 UY	0.6 UY	0.6 UY	0.33 U	0.33 U [0.33 U]	0.5 UY
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	11	5.3	4.7	2.3	0.33 U [0.33 U]	3.5
Inorganic														
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA
Miscellaneous														
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	840,000	830,000	900,000	850,000	780,000 [720,000]	890,000

Table E-2

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RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-103-09 5 - 7 01/31/14	TW-70-107R-1 0 - 2 12/09/13	TW-70-107R-1 3 - 5 12/09/13	TW-70-107R-1 7 - 9 12/09/13	TW-70-107R-2 0 - 2 12/09/13	TW-70-107R-2 3 - 5 12/09/13
VOC														
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-103-09 5 - 7 01/31/14	TW-70-107R-1 0 - 2 12/09/13	TW-70-107R-1 3 - 5 12/09/13	TW-70-107R-1 7 - 9 12/09/13	TW-70-107R-2 0 - 2 12/09/13	TW-70-107R-2 3 - 5 12/09/13
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA
SVOC														
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-103-09 5 - 7 01/31/14	TW-70-107R-1 0 - 2 12/09/13	TW-70-107R-1 3 - 5 12/09/13	TW-70-107R-1 7 - 9 12/09/13	TW-70-107R-2 0 - 2 12/09/13	TW-70-107R-2 3 - 5 12/09/13
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA
PCB														
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	6.6 Y	0.33 U	0.33 U	1.5	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	6.6	0.33 U	0.33 U	1.5	0.33 U	0.33 U
Inorganic														
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA
Miscellaneous														
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	830,000	910,000	880,000	840,000	890,000	870,000

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-107R-2 7 - 9 12/09/13	TW-70-107R-3 0 - 2 12/09/13	TW-70-107R-3 3 - 5 12/09/13	TW-70-107R-3 7 - 9 12/09/13	TW-70-107R-4 0 - 2 12/09/13	TW-70-107R-4 3 - 5 12/09/13
VOC														
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
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RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-107R-2 7 - 9 12/09/13	TW-70-107R-3 0 - 2 12/09/13	TW-70-107R-3 3 - 5 12/09/13	TW-70-107R-3 7 - 9 12/09/13	TW-70-107R-4 0 - 2 12/09/13	TW-70-107R-4 3 - 5 12/09/13
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA
SVOC														
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA

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Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA
PCB														
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.6 UY [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.6 UY [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.6 UY [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.6 UY [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.6 UY [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	4.1 Y [2.8]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.6 UY [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	4.1 [2.8]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Inorganic														
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA
Miscellaneous														
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	830,000	910,000	860,000	790,000	900,000	870,000

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-107R-4 7 - 9 12/09/13	TW-70-107R-5 0 - 2 12/09/13	TW-70-107R-5 3 - 5 12/09/13	TW-70-107R-5 7 - 9 12/09/13	TW-70-107R-6 0 - 2 12/10/13	TW-70-107R-6 3 - 5 12/10/13
VOC														
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-107R-4 7 - 9 12/09/13	TW-70-107R-5 0 - 2 12/09/13	TW-70-107R-5 3 - 5 12/09/13	TW-70-107R-5 7 - 9 12/09/13	TW-70-107R-6 0 - 2 12/10/13	TW-70-107R-6 3 - 5 12/10/13
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA
SVOC														
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA

Table E-2

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RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-107R-4 7 - 9 12/09/13	TW-70-107R-5 0 - 2 12/09/13	TW-70-107R-5 3 - 5 12/09/13	TW-70-107R-5 7 - 9 12/09/13	TW-70-107R-6 0 - 2 12/10/13	TW-70-107R-6 3 - 5 12/10/13
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA
PCB														
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	1.5	0.33 U	0.33 U	2.1	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	1.5	0.33 U	0.33 U	2.1	0.33 U	0.33 U
Inorganic														
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA
Miscellaneous														
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	810,000	920,000	830,000	840,000	880,000	900,000

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-107R-6 7 - 9 12/10/13	TW-70-107R-7 0 - 2 12/10/13	TW-70-107R-7 3 - 5 12/10/13	TW-70-107R-7 7 - 9 12/10/13
VOC												
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA

Table E-2

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-107R-6 7 - 9 12/10/13	TW-70-107R-7 0 - 2 12/10/13	TW-70-107R-7 3 - 5 12/10/13	TW-70-107R-7 7 - 9 12/10/13
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA

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Location ID: Sample Depth(ft bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-70-107R-6 7 - 9 12/10/13	TW-70-107R-7 0 - 2 12/10/13	TW-70-107R-7 3 - 5 12/10/13	TW-70-107R-7 7 - 9 12/10/13
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA
PCB												
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	2.2
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.33 U	0.33 U	2.2
Inorganic												
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	790,000	930,000	820,000	830,000

Table E-3

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	70-101 02/27/02	70-103 09/17/02	70-107R 03/18/13	TW-70-103-5 01/03/14	TW-70-107R-2 02/06/14	TW-70-107R-4 02/06/14
VOC							
1,1,1-Trichloroethane	mg/kg	0.13 U	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	0.13 U	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	0.63 U	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	0.13 U	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	0.13 U	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	0.13 U	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	0.13 U	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	0.13 U	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	0.13 U	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	0.13 U	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	0.13 U	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	0.13 U	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	0.13 U	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	0.13 U	NA	NA	NA	NA	NA
2-Butanone	mg/kg	0.63 U	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	0.63 U	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	0.63 U	NA	NA	NA	NA	NA
Acetone	mg/kg	0.7 J	NA	NA	NA	NA	NA
Benzene	mg/kg	0.13 U	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	0.13 U	NA	NA	NA	NA	NA
Bromoform	mg/kg	0.13 U	NA	NA	NA	NA	NA
Bromomethane	mg/kg	0.13 UJ	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	0.13 U	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	0.13 U	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	0.13 U	NA	NA	NA	NA	NA
Chloroethane	mg/kg	0.13 UJ	NA	NA	NA	NA	NA
Chloroform	mg/kg	0.13 U	NA	NA	NA	NA	NA
Chloromethane	mg/kg	0.13 U	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	0.13 U	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	0.13 U	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	0.63 U	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	0.13 U	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	0.13 U	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	0.13 U	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	0.48	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	0.25 U	NA	NA	NA	NA	NA

Table E-3

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	70-101 02/27/02	70-103 09/17/02	70-107R 03/18/13	TW-70-103-5 01/03/14	TW-70-107R-2 02/06/14	TW-70-107R-4 02/06/14
Methyl acetate	mg/kg	0.63 U	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	0.13 U	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	0.65	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	0.63 UJ	NA	NA	NA	NA	NA
o-Xylene	mg/kg	0.13	NA	NA	NA	NA	NA
Styrene	mg/kg	0.13 U	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	0.13 U	NA	NA	NA	NA	NA
Toluene	mg/kg	0.13 U	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	0.13 U	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	0.13 U	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	0.13 U	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	0.13 UJ	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	0.13 U	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	0.13	NA	NA	NA	NA	NA
SVOC							
1,1'-Biphenyl	mg/kg	490 U	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	490 U	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	490 U	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	2,000 U	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	490 U	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	490 U	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	490 U	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	490 U	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	490 U	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	490 U	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	2,000 U	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	490 U	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	980 UJ	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	2,000 U	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	2,000 U	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	2,000 UJ	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	490 U	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	490 U	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	2,000 U	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	490 U	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	2,000 UJ	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	2,000 U	NA	NA	NA	NA	NA

Table E-3

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	70-101 02/27/02	70-103 09/17/02	70-107R 03/18/13	TW-70-103-5 01/03/14	TW-70-107R-2 02/06/14	TW-70-107R-4 02/06/14
Acenaphthene	mg/kg	490 U	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	490 U	NA	NA	NA	NA	NA
Acetophenone	mg/kg	490 U	NA	NA	NA	NA	NA
Anthracene	mg/kg	490 U	NA	NA	NA	NA	NA
Atrazine	mg/kg	490 U	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	490 UJ	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	490 U	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	490 U	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	490 U	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	490 U	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	490 U	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	490 U	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	490 U	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	490 U	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	490 U	NA	NA	NA	NA	NA
Caprolactam	mg/kg	490 U	NA	NA	NA	NA	NA
Carbazole	mg/kg	490 U	NA	NA	NA	NA	NA
Chrysene	mg/kg	490 U	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	490 U	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	490 U	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	490 U	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	490 U	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	490 U	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	490 U	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	490 U	NA	NA	NA	NA	NA
Fluorene	mg/kg	490 U	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	490 U	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	490 U	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	490 U	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	490 U	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	490 U	NA	NA	NA	NA	NA
Isophorone	mg/kg	490 U	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	490 U	NA	NA	NA	NA	NA
Naphthalene	mg/kg	490 U	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490 U	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	490 U	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	490 U	NA	NA	NA	NA	NA

Table E-3

Priority #6 - AOI 81-2 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	70-101 02/27/02	70-103 09/17/02	70-107R 03/18/13	TW-70-103-5 01/03/14	TW-70-107R-2 02/06/14	TW-70-107R-4 02/06/14
Pentachlorophenol	mg/kg	2,000 UJ	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	65 J	NA	NA	NA	NA	NA
Phenol	mg/kg	490 U	NA	NA	NA	NA	NA
Pyrene	mg/kg	490 U	NA	NA	NA	NA	NA
PCB							
Aroclor-1016	mg/kg	NA	NA	10 UY	17 UY	10 UY	33 UY
Aroclor-1221	mg/kg	NA	NA	10 UY	17 UY	10 UY	33 UY
Aroclor-1232	mg/kg	NA	NA	10 UY	17 UY	10 UY	33 UY
Aroclor-1242	mg/kg	NA	NA	10 UY	17 UY	10 UY	33 UY
Aroclor-1248	mg/kg	NA	NA	10 UY	17 UY	10 UY	33 UY
Aroclor-1254	mg/kg	NA	NA	100 Y	83 Y	90 Y	183 Y
Aroclor-1260	mg/kg	NA	NA	10 UY	17 UY	10 UY	33 UY
Total PCBs	mg/kg	NA	NA	100	83	90	183
Inorganic							
Antimony	mg/kg	NA	NA	0.5 U	NA	NA	NA
Arsenic	mg/kg	NA	NA	6.97	NA	NA	NA
Barium	mg/kg	NA	NA	1 U	NA	NA	NA
Beryllium	mg/kg	NA	NA	0.2 U	NA	NA	NA
Cadmium	mg/kg	NA	NA	0.2 U	NA	NA	NA
Chromium Total	mg/kg	NA	NA	2.65	NA	NA	NA
Cobalt	mg/kg	NA	NA	0.5 U	NA	NA	NA
Copper	mg/kg	NA	NA	9.96	NA	NA	NA
Cyanide (total)	mg/kg	NA	NA	2 U	NA	NA	NA
Lead	mg/kg	NA	NA	3.01	NA	NA	NA
Manganese	mg/kg	NA	NA	0.5 U	NA	NA	NA
Mercury	mg/kg	NA	NA	0.05 U	NA	NA	NA
Nickel	mg/kg	NA	NA	2.24	NA	NA	NA
Selenium	mg/kg	NA	NA	0.4 U	NA	NA	NA
Silver	mg/kg	NA	NA	0.1 U	NA	NA	NA
Thallium	mg/kg	NA	NA	0.2 U	NA	NA	NA
Vanadium	mg/kg	NA	NA	1.28	NA	NA	NA
Zinc	mg/kg	NA	NA	2.19	NA	NA	NA
Miscellaneous							
Ignitability	deg f	NA	200 U	NA	NA	NA	NA
Interfacial Tension	dynes/cm	5.6	NA	NA	NA	NA	NA
Specific gravity	sg	0.91	NA	NA	NA	NA	NA
Viscosity	cp	45.6	NA	NA	NA	NA	NA

Table F-1

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	88-8 09/20/01	88-8 06/13/02	88-8 04/01/03	RFI-83/84-27 02/21/02	RFI-83/84-27 06/18/02	RFI-83/84-27 04/02/03	RFI-83/84-27 10/07/04	RFI-83/84-29 02/21/02	RFI-83/84-29 06/18/02	RFI-83/84-29 04/01/03
VOC														
1,1,1-Trichloroethane	ug/L	{ID}	1,300,000 {(S)}	1,330,000	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
1,1,2,2-Tetrachloroethane	ug/L	{ID}	77,000	2,970,000	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	170,000 {(S)}	170,000	1 U	1 U	1 U	1 U	NA	1 U	30 U	1 U	NA	NA
1,1,2-Trichloroethane	ug/L	{NA}	110,000	4,420,000	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
1,1-Dichloroethane	ug/L	380,000	2,300,000	5,060,000	1.2	0.76 J	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
1,1-Dichloroethene	ug/L	97,000	1,300	2,250,000	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
1,2,4-Trichlorobenzene	ug/L	{NA}	300,000 {(S)}	300,000	5 U	5 U	5 U	5 U	NA	5 U	2 U	5 U	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	{NA}	1,200 {(S)}	1,230	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
1,2-Dibromoethane	ug/L	{ID}	15,000	4,200,000	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
1,2-Dichlorobenzene	ug/L	{NA}	160,000 {(S)}	156,000	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
1,2-Dichloroethane	ug/L	2,500,000	59,000	8,520,000	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
1,2-Dichloropropane	ug/L	550,000	36,000	2,800,000	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
1,3-Dichlorobenzene	ug/L	{ID}	41,000	111,000	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
1,4-Dichlorobenzene	ug/L	{NA}	74,000 {(S)}	73,800	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
2-Butanone	ug/L	{ID}	240,000,000 {(S)}	240,000,000	25 U	25 U	25 U	25 U	NA	25 U	30 U	25 U	NA	NA
2-Hexanone	ug/L	{NA}	8,700,000	16,000,000	50 U	50 U	50 U	50 U	NA	50 U	50 UJ	50 U	NA	NA
4-Methyl-2-pentanone	ug/L	{ID}	20,000,000 {(S)}	20,000,000	50 U	50 U	50 U	50 U	NA	50 U	1 U	50 U	NA	NA
Acetone	ug/L	15,000,000	1,000,000,000 {(D,S)}	1,000,000,000	1.5 J	25 U	25 U	25 U	NA	25 U	9 J	25 U	NA	NA
Benzene	ug/L	68,000	35,000	1,750,000	1 U	1 U	1 U	1 U	NA	1 U	0.4 J	1 U	NA	NA
Bromodichloromethane	ug/L	{ID}	37,000	6,740,000	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
Bromoform	ug/L	{ID}	3,100,000 {(S)}	3,100,000	1 U	1 U	1 U	1 U	NA	1 U	1 UJ	1 U	NA	NA
Bromomethane	ug/L	{ID}	9,000	14,500,000	1 U	1 U	1 U	1 U	NA	1 U	2 UJ	1 U	NA	NA
Carbon Disulfide	ug/L	13,000	550,000	1,190,000	5 U	5 U	5 U	5 U	NA	5 U	5 U	5 U	NA	NA
Carbon Tetrachloride	ug/L	{ID}	2,400	793,000	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
Chlorobenzene	ug/L	160,000	470,000 {(S)}	472,000	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
Chloroethane	ug/L	110,000	5,700,000 {(S)}	5,740,000	1 U	1 U	1 U	1 U	NA	1 U	1 UJ	1 U	NA	NA
Chloroform	ug/L	{ID}	180,000	7,920,000	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
Chloromethane	ug/L	36,000	45,000	6,340,000	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
cis-1,2-Dichloroethene	ug/L	530,000	210,000	3,500,000	1.3	0.9 J	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
Cyclohexane	ug/L	- -	- -	- -	5 U	5 U	5 U	5 U	NA	5 U	1 U	5 U	NA	NA
Dibromochloromethane	ug/L	{ID}	110,000	2,600,000	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
Dichlorodifluoromethane	ug/L	{ID}	300,000 {(S)}	300,000	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
Ethylbenzene	ug/L	43,000	170,000 {(S)}	169,000	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
Isopropylbenzene	ug/L	29,000	56,000 {(S)}	56,000	5 U	5 U	5 U	5 U	NA	5 U	0.2 J	5 U	NA	NA
m&p-Xylene	ug/L	- -	- -	- -	2 U	2 U	2 U	1.2 J	NA	2 U	0.6 J	2 U	NA	NA
Methyl acetate	ug/L	- -	- -	- -	5 U	5 U	5 U	5 U	NA	5 U	10 U	5 U	NA	NA
Methyl tert-butyl ether	ug/L	{ID}	47,000,000 {(S)}	46,800,000	5 U	5 U	5 U	5 U	NA	5 U	5 U	5 U	NA	NA
Methylcyclohexane	ug/L	- -	- -	- -	1 U	1 U	1 U	1 U	NA	1 U	0.3 J	1 U	NA	NA
Methylene Chloride	ug/L	{ID}	1,400,000	17,000,000	5 U	5 U	5 U	5 U	NA	5 U	5 U	5 U	NA	NA
o-Xylene	ug/L	- -	- -	- -	1 U	1 U	1 U	1.5	NA	1 U	0.6 J	1 U	NA	NA
Styrene	ug/L	140,000	310,000 {(S)}	310,000	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
Tetrachloroethene	ug/L	{ID}	170,000	200,000	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
Toluene	ug/L	61,000	530,000 {(S)}	526,000	1 U	1 U	1 U	1 U	NA	1 U	0.4 J	1 U	NA	NA
trans-1,2-Dichloroethene	ug/L	230,000	200,000	6,300,000	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
Trichloroethene	ug/L	{ID}	4,900	1,100,000	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA

Table F-1

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	88-8 09/20/01	88-8 06/13/02	88-8 04/01/03	RFI-83/84-27 02/21/02	RFI-83/84-27 06/18/02	RFI-83/84-27 04/02/03	RFI-83/84-27 10/07/04	RFI-83/84-29 02/21/02	RFI-83/84-29 06/18/02	RFI-83/84-29 04/01/03
Trichlorofluoromethane	ug/L	{ID}	1,100,000 {(S)}	1,100,000	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
Vinyl Chloride	ug/L	33,000	13,000	2,760,000	5.2	3.8	12 J	1 U	NA	1 U	1 U	1 U	NA	NA
Xylenes (total)	ug/L	70,000	190,000 {(S)}	186,000	1 U	1 U	1 U	1.5	NA	1 U	0.6 J	1 U	NA	NA
SVOC														
1,1'-Biphenyl	ug/L	- -	- -	- -	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
2,4,5-Trichlorophenol	ug/L	{ID}	{NLV}	1,200,000	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
2,4,6-Trichlorophenol	ug/L	{ID}	{NLV}	800,000	4 U	NA	NA	4 U	NA	NA	NA	4 U	NA	NA
2,4-Dichlorophenol	ug/L	{ID}	{NLV}	4,500,000	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA
2,4-Dimethylphenol	ug/L	{ID}	{NLV}	7,870,000	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	20 U	NA	NA	20 U	NA	NA	NA	20 U	NA	NA
2,4-Dinitrotoluene	ug/L	{ID}	{NLV}	270,000	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
2-Chloronaphthalene	ug/L	{ID}	{ID}	6,740	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
2-Chlorophenol	ug/L	{ID}	1,100,000	22,000,000	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
2-Methylnaphthalene	ug/L	{ID}	25,000 {(S)}	24,600	5 U	NA	NA	0.95 J	NA	NA	NA	5 U	NA	NA
2-Methylphenol	ug/L	- -	- -	- -	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
2-Nitroaniline	ug/L	- -	- -	- -	20 U	NA	NA	20 U	NA	NA	NA	20 U	NA	NA
2-Nitrophenol	ug/L	{ID}	{NLV}	2,500,000	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
3&4-Methylphenol	ug/L	- -	- -	- -	10 UJ	NA	NA	10 UJ	NA	NA	NA	10 UJ	NA	NA
3,3'-Dichlorobenzidine	ug/L	{ID}	{NLV}	3,110	20 U	NA	NA	20 U	NA	NA	NA	20 U	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	20 U	NA	NA	20 U	NA	NA	NA	20 U	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	20 U	NA	NA	20 U	NA	NA	NA	20 U	NA	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
4-Chloro-3-Methylphenol	ug/L	{ID}	{NLV}	3,900,000	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
4-Chloroaniline	ug/L	- -	- -	- -	20 U	NA	NA	20 U	NA	NA	NA	20 U	NA	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	R	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
4-Nitroaniline	ug/L	- -	- -	- -	20 U	NA	NA	20 U	NA	NA	NA	20 U	NA	NA
4-Nitrophenol	ug/L	- -	- -	- -	20 U	NA	NA	20 U	NA	NA	NA	20 U	NA	NA
Acenaphthene	ug/L	{ID}	4,200 {(S)}	4,240	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
Acenaphthylene	ug/L	{ID}	3,900 {(S)}	3,930	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
Acetophenone	ug/L	{ID}	6,100,000 {(S)}	6,100,000	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
Anthracene	ug/L	{ID}	43 {(S)}	43.4	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
Atrazine	ug/L	{ID}	{NLV}	70,000	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	5 UJ	NA	NA	5 UJ	NA	NA	NA	5 UJ	NA	NA
Benzo(a)anthracene	ug/L	{ID}	{NLV}	9.4	1 U	NA	NA	1 U	NA	NA	NA	1 U	NA	NA
Benzo(a)pyrene	ug/L	{ID}	{NLV}	1.62	**2 U**	NA	NA	**2 U**	NA	NA	NA	**2 U**	NA	NA
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	1.5	**2 U**	NA	NA	**2 U**	NA	NA	NA	**2 U**	NA	NA
Benzo(g,h,i)perylene	ug/L	{ID}	{NLV}	0.26	**5 U**	NA	NA	**5 U**	NA	NA	NA	**5 U**	NA	NA
Benzo(k)fluoranthene	ug/L	{ID}	{NLV}	0.8	**5 U**	NA	NA	**5 U**	NA	NA	NA	**5 U**	NA	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	210,000	17,200,000	1 U	NA	NA	1 U	NA	NA	NA	1 U	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	{NLV}	340	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
Butylbenzylphthalate	ug/L	{ID}	{NLV}	2,690	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
Caprolactam	ug/L	{NA}	{NLV}	5,250,000,000	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA
Carbazole	ug/L	{ID}	{NLV}	7,480	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA
Chrysene	ug/L	{ID}	{ID}	1.6	**5 U**	NA	NA	**5 U**	NA	NA	NA	**5 U**	NA	NA
Dibenzo(a,h)anthracene	ug/L	{ID}	{NLV}	2.49	2 U	NA	NA	2 U	NA	NA	NA	2 U	NA	NA

Table F-1

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	88-8 09/20/01	88-8 06/13/02	88-8 04/01/03	RFI-83/84-27 02/21/02	RFI-83/84-27 06/18/02	RFI-83/84-27 04/02/03	RFI-83/84-27 10/07/04	RFI-83/84-29 02/21/02	RFI-83/84-29 06/18/02	RFI-83/84-29 04/01/03
Dibenzofuran	ug/L	{ID}	10,000 {(S)}	10,000	4 U	NA	NA	4 U	NA	NA	NA	4 U	NA	NA
Diethylphthalate	ug/L	{NA}	{NLV}	1,080,000	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
Dimethylphthalate	ug/L	{NA}	{NLV}	4,190,000	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
Di-n-Butylphthalate	ug/L	{NA}	{NLV}	11,200	5 U	NA	NA	1.56 J	NA	NA	NA	5 U	NA	NA
Di-n-Octylphthalate	ug/L	{ID}	{NLV}	3,000	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
Fluoranthene	ug/L	{ID}	210 {(S)}	206	2 U	NA	NA	2 U	NA	NA	NA	2 U	NA	NA
Fluorene	ug/L	{ID}	2,000 {(S)}	1,980	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
Hexachlorobenzene	ug/L	{ID}	3,000	6,200	1 U	NA	NA	1 U	NA	NA	NA	1 U	NA	NA
Hexachlorobutadiene	ug/L	{ID}	3,200 {(S)}	3,230	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
Hexachlorocyclopentadiene	ug/L	{ID}	420	1,800	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
Hexachloroethane	ug/L	{ID}	50,000 {(S)}	50,000	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{NLV}	0.022	**2 U**	NA	NA	**2 U**	NA	NA	NA	**2 U**	NA	NA
Isophorone	ug/L	{ID}	{NLV}	12,000,000	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
Methylphenols, Total	ug/L	{NA}	{NLV}	28,000,000	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
Naphthalene	ug/L	{NA}	31,000 {(S)}	31,000	5 U	NA	NA	2.97 J	NA	NA	NA	5 U	NA	NA
Nitrobenzene	ug/L	{NA}	550,000	2,090,000	2 U	NA	NA	2 U	NA	NA	NA	2 U	NA	NA
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NLV}	9,890,000	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
N-Nitrosodiphenylamine	ug/L	{ID}	{NLV}	35,100	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
Pentachlorophenol	ug/L	{ID}	{NLV}	1,850,000	20 U	NA	NA	20 U	NA	NA	NA	20 U	NA	NA
Phenanthrene	ug/L	{ID}	1,000 {(S)}	1,000	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
Phenol	ug/L	{NA}	{NLV}	82,800,000	5 U	NA	NA	1.34 J	NA	NA	NA	5 U	NA	NA
Pyrene	ug/L	{ID}	140 {(S)}	135	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	NA
PCB														
Aroclor-1016	ug/L	- -	- -	- -	0.1 U	NA	NA	0.1 U	NA	NA	NA	0.1 U	NA	NA
Aroclor-1221	ug/L	- -	- -	- -	0.1 U	NA	NA	0.1 U	NA	NA	NA	0.1 U	NA	NA
Aroclor-1232	ug/L	- -	- -	- -	0.1 U	NA	NA	0.1 U	NA	NA	NA	0.1 U	NA	NA
Aroclor-1242	ug/L	- -	- -	- -	0.1 U	NA	NA	0.1 U	NA	NA	NA	0.1 U	NA	NA
Aroclor-1248	ug/L	- -	- -	- -	0.1 U	NA	NA	0.1 U	NA	NA	NA	0.1 U	NA	NA
Aroclor-1254	ug/L	- -	- -	- -	0.1 U	NA	NA	0.1 U	NA	NA	NA	0.1 U	NA	NA
Aroclor-1260	ug/L	- -	- -	- -	0.1 U	NA	NA	0.1 U	NA	NA	NA	0.1 U	NA	NA
Total PCBs	ug/L	{ID}	45 {(S)}	44.7	0.1 U	NA	NA	0.1 U	NA	NA	NA	0.1 U	NA	NA
PCB-Dissolved														
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA	NA	0.1 U	NA	NA	NA	0.1 U	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA	NA	0.1 U	NA	NA	NA	0.1 U	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA	NA	0.1 U	NA	NA	NA	0.1 U	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA	NA	0.1 U	NA	NA	NA	0.1 U	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA	NA	0.1 U	NA	NA	NA	0.1 U	NA	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA	NA	0.1 U	NA	NA	NA	0.1 U	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA	NA	0.1 U	NA	NA	NA	0.1 U	NA	NA
Total PCBs (Dissolved)	ug/L	{ID}	45 {(S)}	44.7	0.1 U	NA	NA	0.1 U	NA	NA	NA	0.1 U	NA	NA
Inorganic														
Antimony	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	1.2 U	NA	NA	NA	1.2 U	1.2 U
Arsenic	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	3.1	NA	NA	NA	5.5	6.1
Barium	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	310	NA	NA	NA	150	210
Beryllium	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	0.4 UJ	NA	1 U	NA	0.4 UJ	0.4 U
Cadmium	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	0.2 U	NA	NA	NA	0.2 U	0.2 U
Chromium Total	ug/L	- -	- -	- -	NA	NA	NA	NA	1.1	NA	NA	NA	0.71	0.95
Cobalt	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	3.7	NA	NA	NA	0.95	0.99

Table F-1

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	88-8 09/20/01	88-8 06/13/02	88-8 04/01/03	RFI-83/84-27 02/21/02	RFI-83/84-27 06/18/02	RFI-83/84-27 04/02/03	RFI-83/84-27 10/07/04	RFI-83/84-29 02/21/02	RFI-83/84-29 06/18/02	RFI-83/84-29 04/01/03
Copper	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	2.5 J	NA	NA	NA	3.6 J	3.3
Cyanide (total)	ug/L	{ID}	{NLV}	{NA}	4 J	NA	NA	7.2	7.4	NA	NA	2.3 J	5 U	5 U
Lead	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	0.92	NA	NA	NA	0.3 J	0.13 J
Manganese	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	170	NA	NA	NA	1,200	570 J
Mercury	ug/L	{ID}	56 {(S)}	56	0.2 U	NA	NA	0.2 U	0.208	NA	NA	0.2 U	0.177 J	0.2 U
Nickel	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	5.9	NA	NA	NA	6.8	12
Selenium	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	1.4 U	NA	NA	NA	1.4 U	1.6 U
Silver	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	0.4 U	NA	NA	NA	0.4 U	0.4 U
Thallium	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	0.2 U	NA	NA	NA	0.2 U	0.2 U
Vanadium	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	0.54 J	NA	NA	NA	0.8 U	0.8 U
Zinc	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	12 J	NA	NA	NA	14 J	17
Inorganic-Dissolved														
Antimony (Dissolved)	ug/L	{ID}	{NLV}	{NA}	1.2 U	NA	NA	1.7 U	NA	NA	NA	1.3 U	NA	NA
Arsenic (Dissolved)	ug/L	{ID}	{NLV}	{NA}	39	NA	NA	4.7 J	NA	NA	NA	7.9	NA	NA
Barium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	240	NA	NA	330	NA	NA	NA	110	NA	NA
Beryllium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.4 U	NA	NA	21 J	NA	NA	NA	23 J	NA	NA
Cadmium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.2 U	NA	NA	1.4 J	NA	NA	NA	1.3 J	NA	NA
Chromium Total (Dissolved)	ug/L	- -	- -	- -	0.6 U	NA	NA	12	NA	NA	NA	14	NA	NA
Cobalt (Dissolved)	ug/L	{ID}	{NLV}	{NA}	5.3	NA	NA	2.3	NA	NA	NA	1.8	NA	NA
Copper (Dissolved)	ug/L	{ID}	{NLV}	{NA}	12	NA	NA	7.3 J	NA	NA	NA	6.9 J	NA	NA
Cyanide (dissolved)	ug/L	{ID}	{NLV}	{NA}	4.9 J	NA	NA	6.6	NA	NA	NA	3.3 J	NA	NA
Lead (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.4 U	NA	NA	0.88	NA	NA	NA	0.62 J	NA	NA
Manganese (Dissolved)	ug/L	{ID}	{NLV}	{NA}	400	NA	NA	200	NA	NA	NA	1,100	NA	NA
Mercury (Dissolved)	ug/L	- -	- -	- -	0.2 U	NA	NA	0.2 U	NA	NA	NA	0.2 U	NA	NA
Nickel (Dissolved)	ug/L	{ID}	{NLV}	{NA}	16	NA	NA	12	NA	NA	NA	12	NA	NA
Selenium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	2.1 J	NA	NA	1.4 U	NA	NA	NA	1.4 U	NA	NA
Silver (Dissolved)	ug/L	{ID}	{NLV}	{NA}	3.1 J	NA	NA	0.92 J	NA	NA	NA	1.1 J	NA	NA
Thallium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.2 U	NA	NA	0.56 U	NA	NA	NA	0.47 U	NA	NA
Vanadium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.8 U	NA	NA	0.8 U	NA	NA	NA	0.99	NA	NA
Zinc (Dissolved)	ug/L	{ID}	{NLV}	{NA}	26	NA	NA	24	NA	NA	NA	21	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	F31-Boring 6-1 5 - 6 04/17/13	F31-Boring 6-2 6 - 7 04/17/13	F31-Boring 6-3 3 - 4 04/17/13	F31-Boring 6-4 6 - 7 04/17/13	F31-Boring4 5 - 6 09/21/12	F31-Boring5 3 - 4 09/21/12
VOC													
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U	0.1 U
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U	0.07 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U	0.07 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U	0.07 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U	0.07 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U	0.07 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	0.64 U	0.64 U	0.49 U	0.63 U	0.43 U	0.45 U
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U	0.1 U
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	0.6	0.2 U	0.2	0.2 U	0.1 U	0.1 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.64 U	0.64 U	0.49 U	0.63 U	0.43 U	0.45 U
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	0.2 U	0.2 U	0.2	0.2 U	0.1 U	0.1 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.5 U	0.5 U	0.4 U	0.5 U	0.3 U	0.3 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.04 UM	0.04 UM	0.03 UM	0.04 UM	0.03 UM	0.03 UM
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U	0.1 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U	0.07 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U	0.07 U
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U	0.1 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U	0.1 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U	0.1 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	1.5 U	1.5 U	1.1 U	1.4 U	0.98 U	1 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	5 U	5 U	4 U	5 U	3 U	3 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.64 U	0.64 U	0.75	0.63 U	0.43 U	0.45 U
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	5 U	5 U	4 U	5 U	3 U	3 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	2 U	2 U	1 U	2 U	1 U	1 U
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U	0.1 U
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U	0.07 U
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U	0.1 U
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U	0.1 U
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U	0.1 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U	0.1 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.4 U	0.4 U	0.3 U	0.4 U	0.3 U	0.3 U
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.5 U	0.5 U	0.4 U	0.5 U	0.3 U	0.3 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U	0.07 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U	0.07 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.5 U	0.5 U	0.4 U	0.5 U	0.3 U	0.3 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U	0.07 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.5 U	0.5 U	0.4 U	0.5 U	0.3 U	0.3 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U	0.07 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U	0.07 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U	0.1 U
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	0.5 U	0.5 U	0.4 U	0.5 U	0.3 U	0.3 U
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.5 U	0.5 U	0.4 U	0.5 U	0.3 U	0.3 U
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	0.4 U	0.4 U	0.3 U	0.4 U	0.3 U	0.3 U
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U	0.07 U

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	F31-Boring 6-1 5 - 6 04/17/13	F31-Boring 6-2 6 - 7 04/17/13	F31-Boring 6-3 3 - 4 04/17/13	F31-Boring 6-4 6 - 7 04/17/13	F31-Boring4 5 - 6 09/21/12	F31-Boring5 3 - 4 09/21/12
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.6 U	0.6 U	0.4 U	0.6 U	0.4 U	0.4 U
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U	0.1 U
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.5 U	0.5 U	0.4 U	0.5 U	0.3 U	0.3 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.5	0.2 U	0.1 U	0.1 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.4 U	0.4 U	0.3 U	0.4 U	0.3 U	0.3 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U	0.1 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.64 U	0.64 U	0.73	0.63 U	0.43 U	0.45 U
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	0.5	0.1 U	0.07 U	0.09 U	0.07 U	0.07 U
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U	0.1 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.4	0.09 U	0.07 U	0.07 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.2	0.2 U	0.1 U	0.2 U	0.1 U	0.1 U
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	0.1	0.1 U	0.07 U	0.09 U	0.07 U	0.07 U
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U	0.07 U
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U	0.07 U
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U	0.07 U
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	2 U	2 U	1 U	2 U	1 U	1 U
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.2 U	0.2 U	0.2	0.2 U	0.1 U	0.1 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U	0.07 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U	0.07 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U	0.07 U
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U	0.07 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U	0.1 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U	0.07 U
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.1 U	0.1 U	0.4	0.09 U	0.07 U	0.07 U
SVOC													
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.83 U	0.855 UX	0.83 U	0.83 U	0.83 U	0.83 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.33 U	0.855 UX	0.335	0.823 UX	0.33 U	0.37 UX
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.83 U	0.855 UX	0.83 U	0.83 U	0.83 U	0.83 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.33 U	1 UX	0.33 U	0.99 UX	0.33 U	0.37 UX

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	F31-Boring 6-1 5 - 6 04/17/13	F31-Boring 6-2 6 - 7 04/17/13	F31-Boring 6-3 3 - 4 04/17/13	F31-Boring 6-4 6 - 7 04/17/13	F31-Boring4 5 - 6 09/21/12	F31-Boring5 3 - 4 09/21/12
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	2 U	2 U	2 U	0.823 U	2 U	2 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.83 U	0.855 UX	0.83 U	0.83 U	0.83 U	0.83 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.83 U	0.855 UX	0.83 U	0.83 U	0.83 U	0.83 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.28 U	0.855 UX	0.28 U	0.823 UX	0.294 UX	0.37 UX
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.83 U	0.855 UX	0.83 U	0.83 U	0.83 U	0.83 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.83 U	0.855 UX	0.83 U	0.83 U	0.83 U	0.83 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.717	0.823 UX	0.33 U	0.37 UX
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.487	0.823 UX	0.33 U	0.37 UX
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.33 U	0.855 UX	0.596	0.823 UX	0.33 U	0.37 UX
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.483	0.823 UX	0.33 U	0.37 UX
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.33 U	1.2 UX	0.33 U	1.2 UX	0.33 U	0.37 UX
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.33 U	0.855 UX	0.726	0.823 UX	0.33 U	0.37 UX
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.33 U	1 UX	0.33 U	0.99 UX	0.33 U	0.37 UX
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.33 U	0.855 UX	1.235	0.823 UX	0.33 U	0.37 UX
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 U	0.33 U	0.823 U	0.33 U	0.37 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.33 U	1.7 UX	0.33 U	1.6 UX	0.588 UX	0.741 UX
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.33 U	0.855 UX	1.217	0.823 UX	0.33 U	0.37 UX

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	F31-Boring 6-1 5 - 6 04/17/13	F31-Boring 6-2 6 - 7 04/17/13	F31-Boring 6-3 3 - 4 04/17/13	F31-Boring 6-4 6 - 7 04/17/13	F31-Boring4 5 - 6 09/21/12	F31-Boring5 3 - 4 09/21/12
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U	0.37 UX
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.33 U	0.855 UX	1.357	0.823 UX	0.33 U	0.37 UX
PCB													
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	NA	NA	NA	NA	NA	NA
Inorganic													
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	850,000	780,000	920,000	810,000	850,000	900,000

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	F31-Boring6 7.5 - 8.5 09/21/12	MW-83/84-26 2 - 4 09/11/13	MW-83/84-26 8 - 10 09/11/13	MW-83/84-26 12 - 13 09/11/13	MW-83/84-29 1 - 2 10/15/13	MW-83/84-29 4 - 5 10/15/13
VOC													
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	0.2 U	0.1 U	0.1 U	NA	0.1 U	0.1 U
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.08 U	0.06 U	0.06 U	NA	0.06 U	0.06 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.08 U	0.06 U	0.06 U	NA	0.06 U	0.06 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.08 U	0.06 U	0.06 U	NA	0.06 U	0.06 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.08 U	0.06 U	0.06 U	NA	0.06 U	0.06 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.08 U	0.06 U	0.06 U	NA	0.06 U	0.06 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	0.5 U	0.41 U	0.39 U	NA	0.37 U	0.36 U
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	0.2 U	0.1 U	0.1 U	NA	0.1 U	0.1 U
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.1 U	0.1 U	NA	0.1 U	0.1 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.5 U	0.41 U	0.39 U	NA	0.37 U	0.36 U
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	0.2 U	0.1 U	0.1 U	NA	0.1 U	0.1 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.4 U	0.3 U	0.3 U	NA	0.3 U	0.3 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.03 UM	0.03 UM	0.02 UM	NA	0.02 UM	0.02 UM
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.2 U	0.1 U	0.1 U	NA	0.1 U	0.1 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.08 U	0.06 U	0.06 U	NA	0.06 U	0.06 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.08 U	0.06 U	0.06 U	NA	0.06 U	0.06 U
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	0.2 U	0.1 U	0.1 U	NA	0.1 U	0.1 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.2 U	0.1 U	0.1 U	NA	0.1 U	0.1 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.2 U	0.1 U	0.1 U	NA	0.1 U	0.1 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	1.1 U	0.94 U	0.89 U	NA	0.84 U	0.83 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	4 U	3 U	3 U	NA	3 U	3 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.5 U	0.41 U	0.46	NA	0.37 U	0.36 U
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	4 U	3 U	3 U	NA	3 U	3 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	2 U	1 U	1 U	NA	1 U	1 U
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	0.2 U	0.1 U	0.1 U	NA	0.1 U	0.1 U
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.08 U	0.06 U	0.06 U	NA	0.06 U	0.06 U
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	0.2 U	0.1 U	0.1 U	NA	0.1 U	0.1 U
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.1 U	0.1 U	NA	0.1 U	0.1 U
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.2 U	0.1 U	0.1 U	NA	0.1 U	0.1 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.2 U	0.1 U	0.1 U	NA	0.1 U	0.1 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.3 U	0.3 U	0.2 U	NA	0.2 U	0.2 U
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.4 U	0.3 U	0.3 U	NA	0.3 U	0.3 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.08 U	0.06 U	0.06 U	NA	0.06 U	0.06 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.08 U	0.06 U	0.06 U	NA	0.06 U	0.06 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.4 U	0.3 U	0.3 U	NA	0.3 U	0.3 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.08 U	0.06 U	0.06 U	NA	0.06 U	0.06 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.4 U	0.3 U	0.3 U	NA	0.3 U	0.3 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.08 U	0.06 U	0.06 U	NA	0.06 U	0.06 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.08 U	0.06 U	0.06 U	NA	0.06 U	0.06 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.2 U	0.1 U	0.1 U	NA	0.1 U	0.1 U
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	0.4 U	0.3 U	0.3 U	NA	0.3 U	0.3 U
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.4 U	0.3 U	0.3 U	NA	0.3 U	0.3 U
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	0.3 U	0.3 U	0.2 U	NA	0.2 U	0.2 U
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.08 U	0.06 U	0.06 U	NA	0.06 U	0.06 U

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	F31-Boring6 7.5 - 8.5 09/21/12	MW-83/84-26 2 - 4 09/11/13	MW-83/84-26 8 - 10 09/11/13	MW-83/84-26 12 - 13 09/11/13	MW-83/84-29 1 - 2 10/15/13	MW-83/84-29 4 - 5 10/15/13
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.5 U	0.4 U	0.4 U	NA	0.3 U	0.3 U
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.1 U	0.1 U	NA	0.1 U	0.1 U
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.4 U	0.3 U	0.3 U	NA	0.3 U	0.3 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.1 U	0.1 U	NA	0.1 U	0.1 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.3 U	0.3 U	0.2 U	NA	0.2 U	0.2 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.2 U	0.1 U	0.1 U	NA	0.1 U	0.1 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.5 U	0.41 U	0.95	NA	0.37 U	0.36 U
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	0.08 U	0.06 U	0.21	NA	0.06 U	0.09
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	0.2 U	0.1 U	0.1 U	NA	0.1 U	0.1 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.08 U	0.06 U	0.06 U	NA	0.06 U	0.06 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.1 U	0.1	NA	0.1 U	0.1 U
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	0.08 U	0.06 U	0.55	NA	0.06 U	0.06 U
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.08 U	0.06 U	0.06 U	NA	0.06 U	0.06 U
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	0.08 U	0.06 U	0.06 U	NA	0.06 U	0.06 U
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.08 U	0.06 U	0.06 U	NA	0.06 U	0.06 U
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	2 U	1 U	1 U	NA	1 U	1 U
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.2 U	0.1 U	0.1 U	NA	0.1 U	0.1 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.08 U	0.06 U	0.06 U	NA	0.06 U	0.06 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.08 U	0.06 U	0.06 U	NA	0.06 U	0.06 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	0.08 U	0.06 U	0.06 U	NA	0.06 U	0.06 U
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.08 U	0.06 U	0.06 U	NA	0.06 U	0.06 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.2 U	0.1 U	0.1 U	NA	0.1 U	0.1 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.08 U	0.06 U	0.06 U	NA	0.06 U	0.06 U
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.08 U	0.06 U	0.06 U	NA	0.06 U	0.06 U
SVOC													
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	0.83 U	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.617 UX	0.33 U	0.609 X	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	0.83 U	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.617 UX	0.33 U	0.543 UX	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	F31-Boring6 7.5 - 8.5 09/21/12	MW-83/84-26 2 - 4 09/11/13	MW-83/84-26 8 - 10 09/11/13	MW-83/84-26 12 - 13 09/11/13	MW-83/84-29 1 - 2 10/15/13	MW-83/84-29 4 - 5 10/15/13
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	2 U	2 U	2 U	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	0.83 U	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.83 U	0.83 U	0.83 U	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.617 UX	0.28 U	0.543 UX	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	0.83 U	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	0.83 U	NA	NA	NA
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.617 UX	0.33 U	0.609 X	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.617 UX	0.33 U	0.576 X	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.617 UX	0.33 U	0.728 X	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.617 UX	0.343	0.543 UX	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.617 UX	0.33 U	1.304 X	NA	NA	NA
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.617 UX	0.33 U	1.272 X	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.617 U	0.33 U	0.543 U	NA	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	1.2 UX	0.562 UX	1.1 UX	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.617 UX	0.33 U	2.011 X	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	F31-Boring6 7.5 - 8.5 09/21/12	MW-83/84-26 2 - 4 09/11/13	MW-83/84-26 8 - 10 09/11/13	MW-83/84-26 12 - 13 09/11/13	MW-83/84-29 1 - 2 10/15/13	MW-83/84-29 4 - 5 10/15/13
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.617 UX	0.33 U	0.543 UX	NA	NA	NA
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.617 UX	0.33 U	1.315 X	NA	NA	NA
PCB													
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	NA	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	NA	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	NA	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	NA	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	NA	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	NA	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	NA	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	NA	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Inorganic													
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	NA	0.5 U	0.5 U	NA	0.5 U	0.5 U
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	NA	0.54	0.82	NA	0.97	0.87
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	NA	32.5	13.7	NA	6.08	3.93
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	NA	0.28	0.2 U	NA	0.2 U	0.2 U
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	NA	0.2 U	0.2 U	NA	0.2 U	0.2 U
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	NA	2.33	2.76	NA	0.72	0.9
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	NA	1.51	0.5 U	NA	1.19	0.69
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	NA	19.5	10.7	NA	2.99	4.42
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	0.1 U	0.1 U	NA	0.1 U	0.1 U
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	**30.7 (SDBL (2013))**	3.39	NA	2.31	2.74
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	NA	66	223	NA	154	91.5
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	NA	**0.281 (SDBL (2013))**	0.07	NA	0.05 U	0.05 U
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	NA	5.93	0.7	NA	6.65	3.78
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	NA	**0.5 U**	**0.5 U**	NA	0.4 U	0.4 U
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	NA	0.2 U	0.2 U	NA	0.2 U	0.2 U
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	NA	0.5 U	0.5 U	NA	0.2 U	0.2 U
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	3.98	4.08	NA	1.27	2.1
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	NA	12.9	4.8	NA	6.49	7.95
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	810,000	890,000	920,000	850,000	960,000	960,000

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-83/84-29 6 - 7 10/15/13	RFI-83/84-04 0 - 2 01/29/01	RFI-83/84-04 8 - 10 01/29/01	RFI-83/84-04 12 - 14 01/29/01	RFI-83/84-06 1 - 3 09/12/01
VOC												
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	0.1 U	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.06 U	0.041 U	0.041 U	0.029 U	0.036 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.06 U	0.041 UJ	0.041 U	0.029 U	0.072 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	0.15 U
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.06 U	0.041 U	0.041 U	0.029 U	0.036 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.06 U	0.041 U	0.041 U	0.029 U	0.036 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.06 U	0.041 U	0.041 U	0.029 U	0.036 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	0.39 U	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	0.1 U	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	0.1 U	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.39 U	NA	NA	NA	0.15 U
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	0.1 U	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.3 U	NA	NA	NA	0.15 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.02 UM	NA	NA	NA	0.15 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.1 U	NA	NA	NA	0.072 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.06 U	0.041 U	0.041 U	0.029 U	0.036 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.082 U	0.083 U	0.058 U	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.06 U	0.041 U	0.041 U	0.029 U	0.036 U
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	0.1 U	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.1 U	NA	NA	NA	0.072 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.1 U	NA	NA	NA	0.072 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.88 U	0.29 U	0.3 U	0.21 U	0.26 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	3 U	0.18 U	0.18 U	0.12 U	0.26 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.39 U	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	3 U	0.18 U	0.18 U	0.12 U	0.26 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	1 U	0.29 U	0.3 U	0.21 U	0.26 U
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	0.1 U	NA	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.06 U	0.041 U	0.041 U	0.029 U	0.036 U
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	0.1 U	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	0.1 U	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.1 U	0.041 U	0.041 U	0.029 U	0.072 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.1 U	0.041 U	0.041 U	0.029 U	0.072 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.2 U	0.18 UJ	0.18 UJ	0.12 UJ	0.15 U
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.3 U	0.18 U	0.18 U	0.12 U	0.15 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.06 U	0.041 U	0.041 U	0.029 U	0.036 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.06 U	0.041 U	0.041 U	0.029 U	0.036 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.3 U	0.18 U	0.18 U	0.12 U	0.15 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.06 U	0.041 U	0.041 U	0.029 U	0.036 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.3 U	0.18 U	0.18 U	0.12 U	0.15 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.06 U	0.041 U	0.041 U	0.029 U	0.036 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.06 U	0.041 U	0.041 U	0.029 U	0.036 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.15 U
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.1 U	0.041 U	0.041 U	0.029 U	0.072 U
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	0.3 U	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.3 U	NA	NA	NA	0.072 U
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	0.2 U	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.06 U	0.041 U	0.041 U	0.029 U	0.036 U

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-83/84-29 6 - 7 10/15/13	RFI-83/84-04 0 - 2 01/29/01	RFI-83/84-04 8 - 10 01/29/01	RFI-83/84-04 12 - 14 01/29/01	RFI-83/84-06 1 - 3 09/12/01
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.4 U	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	0.1 U	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.3 U	NA	NA	NA	0.15 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.1 U	0.082 U	0.083 U	0.058 U	0.052 J
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.093 J
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.2 U	NA	NA	NA	0.26 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.15 U
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.1 U	0.18 U	0.18 U	0.12 U	0.15 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.39 U	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	0.07	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	0.1 U	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.06 U	0.041 U	0.041 U	0.029 U	0.027 J
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.1 U	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	0.06 U	NA	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.06 U	0.041 U	0.041 U	0.029 U	0.036 U
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	0.06 U	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.06 U	0.041 U	0.041 U	0.029 U	0.036 U
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	1 U	NA	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.1 U	0.041 U	0.041 U	0.029 U	0.036 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.06 U	0.041 U	0.041 U	0.029 U	0.036 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.06 U	0.041 U	0.041 U	0.029 U	0.036 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	0.06 U	NA	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.06 U	0.041 U	0.041 U	0.029 U	0.036 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.1 U	NA	NA	NA	0.072 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.06 U	0.041 U	0.041 U	0.029 U	0.036 U
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.06 U	0.041 U	0.041 U	0.029 U	0.027 J
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.17 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	0.19 U	0.2 U	0.2 U	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	0.19 U	0.2 U	0.2 U	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	0.19 U	0.2 U	0.2 U	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	0.19 U	0.2 U	0.2 U	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.19 U	0.2 U	0.2 U	0.17 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.2 U	R
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.2 U	R
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.2 U	R
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.2 U	R
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.75 UJ	0.8 U	0.78 U	R
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.2 U	0.69 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.19 U	0.2 U	0.2 U	0.17 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	0.19 U	0.2 U	0.2 U	0.17 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	NA	0.19 U	0.2 U	0.2 U	R
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	0.19 U	0.2 U	0.2 U	0.17 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.19 U	0.2 U	0.2 U	R
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.75 U	0.8 UJ	0.78 U	0.69 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.2 U	R
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.37 U	0.39 U	0.38 U	R

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-83/84-29 6 - 7 10/15/13	RFI-83/84-04 0 - 2 01/29/01	RFI-83/84-04 8 - 10 01/29/01	RFI-83/84-04 12 - 14 01/29/01	RFI-83/84-06 1 - 3 09/12/01
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	NA	0.75 U	0.8 UJ	0.78 UJ	0.69 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.75 U	0.8 U	0.78 UJ	0.69 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	0.75 UJ	0.8 U	0.78 U	R
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.19 UJ	0.2 U	0.2 U	0.17 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.2 U	R
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.75 UJ	0.8 UJ	0.78 UJ	0.69 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.19 UJ	0.2 UJ	0.2 UJ	0.69 UJ
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.75 U	0.8 U	0.78 U	0.69 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.75 U	0.8 U	0.78 U	R
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	NA	0.19 U	0.2 U	0.2 U	0.17 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	NA	0.195 J	0.2 U	0.2 U	0.17 U
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	0.17 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	0.289 J	0.2 U	0.2 U	0.17 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.17 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.17 U
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	NA	1.296 J	0.2 UJ	0.2 U	0.0992 J
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	NA	1.425 J	0.2 UJ	0.2 U	0.17 UJ
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	NA	1.49 J	0.2 UJ	0.2 U	0.0469 J
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	1.551 J	0.2 UJ	0.2 U	0.17 UJ
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	NA	1.471 J	0.2 UJ	0.2 U	0.17 UJ
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.19 UJ	0.2 UJ	0.2 UJ	0.17 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	NA	0.19 U	0.2 U	0.2 U	0.034 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 UJ	0.2 U	0.17 U
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 UJ	0.2 U	0.17 U
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.171 J
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	NA	0.225 J	0.2 U	0.2 U	0.17 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	NA	1.492 J	0.2 UJ	0.2 U	0.133 J
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	NA	0.304 J	0.2 UJ	0.2 U	0.17 UJ
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	NA	0.19 U	0.2 U	0.2 U	0.17 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.2 U	0.17 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	0.19 UJ	0.2 UJ	0.2 UJ	0.17 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.2 U	0.17 U
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 UJ	0.2 U	0.17 UJ
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	1.862 J	0.2 U	0.2 U	0.122 J
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	0.19 U	0.2 U	0.2 U	0.17 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	NA	0.19 U	0.2 U	0.2 U	0.17 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	0.19 U	0.2 U	0.2 U	0.17 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	NA	0.19 UJ	0.2 UJ	0.2 UJ	0.17 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	0.19 U	0.2 U	0.2 U	0.17 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	NA	1.263 J	0.2 UJ	0.2 U	0.17 UJ
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.2 U	0.17 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.2 U	R
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	0.19 U	0.2 U	0.2 U	0.17 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	NA	0.19 U	0.2 U	0.2 U	0.069 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.2 U	0.17 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.2 U	0.17 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.2 U	R
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	NA	1.079 J	0.2 U	0.2 U	0.16 J

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-83/84-29 6 - 7 10/15/13	RFI-83/84-04 0 - 2 01/29/01	RFI-83/84-04 8 - 10 01/29/01	RFI-83/84-04 12 - 14 01/29/01	RFI-83/84-06 1 - 3 09/12/01
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.2 U	R
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	2.136 J	0.28 J	0.2 U	0.341 J
PCB												
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	NA	NA	NA	0.036 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	NA	NA	NA	0.036 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	NA	NA	NA	0.036 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	NA	NA	NA	0.036 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	NA	NA	NA	0.036 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	NA	NA	NA	0.036 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	NA	NA	NA	0.036 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	NA	NA	NA	0.036 U
Inorganic												
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.5 U	NA	NA	NA	0.26 UJ
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	0.94	**10.7 J (SDBL (2013))**	3.85 J	4.02 J	3.3 J
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	5.8	**704 J (SDBL (2013))**	42.4 J	40.2 J	14
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.2 U	NA	NA	NA	0.11
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.2 U	0.212	0.163	0.217	0.075
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	1.24	**37.5 (SDBL (2013))**	15.7	14.7	5.2
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	0.85	NA	NA	NA	2.4 J
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	4.35	NA	NA	NA	17 J
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.1 U	NA	NA	NA	0.22
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	2.95	**1,570 (NDC (2013),SDBL (2013))**	14.6	10.9	8.6
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	123	NA	NA	NA	140 J
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.05 U	**0.252 (SDBL (2013))**	0.024 U	0.024 U	0.0195 J
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	3.32	NA	NA	NA	6.9 J
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	0.4 U	0.15	0.167	0.272	0.14
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.2 U	**4.1 (SDBL (2013))**	0.22 U	0.22 U	0.055 J
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.2 U	NA	NA	NA	0.05 J
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	2.45	NA	NA	NA	7.6 J
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	8.48	NA	NA	NA	18 J
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	920,000	892,000	841,000	862,000	973,000

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-06 7 - 9 09/12/01	RFI-83/84-06 9 - 11 09/12/01	RFI-83/84-10 0 - 2 01/29/01	RFI-83/84-10 8 - 10 01/29/01
VOC											
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.04 U	0.04 U	0.05 U	0.04 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.08 U	0.079 U	0.05 U	0.04 UJ
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.17 U	0.17 U	NA	NA
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.04 U	0.04 U	0.05 U	0.04 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.04 U	0.04 U	0.05 U	0.04 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.04 U	0.04 U	0.05 U	0.04 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.17 U	0.17 U	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.17 U	0.17 U	NA	NA
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.17 U	0.17 U	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.08 U	0.079 U	NA	NA
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.04 U	0.04 U	0.05 U	0.04 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	0.1 U	0.079 U
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.04 U	0.04 U	0.05 U	0.04 U
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.08 U	0.079 U	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.08 U	0.079 U	NA	NA
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.28 U	0.28 U	0.36 U	0.28 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.28 U	0.28 U	0.21 U	0.17 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.28 U	0.28 U	0.21 U	0.17 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.28 U	0.28 U	0.36 U	0.28 U
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.41	0.031 J	0.05 U	0.04 U
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.08 U	0.079 U	0.05 U	0.04 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.08 U	0.079 U	0.05 U	0.04 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.17 U	0.17 U	0.21 UJ	0.17 UJ
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.17 U	0.17 U	0.21 U	0.17 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.04 U	0.04 U	0.05 U	0.04 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.04 U	0.04 U	0.05 U	0.04 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.17 U	0.17 U	0.21 U	0.17 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.04 U	0.04 U	0.05 U	0.04 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.17 U	0.17 U	0.21 U	0.17 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.04 U	0.04 U	0.05 U	0.04 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.04 U	0.04 U	0.05 U	0.04 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.33	0.17 U	NA	NA
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.08 U	0.079 U	0.05 U	0.04 U
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.08 U	0.079 U	NA	NA
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.61	0.1	0.05 U	0.04 U

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-06 7 - 9 09/12/01	RFI-83/84-06 9 - 11 09/12/01	RFI-83/84-10 0 - 2 01/29/01	RFI-83/84-10 8 - 10 01/29/01
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.53	0.11 J	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	3.1	0.5	0.1 U	0.079 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.15 J	0.071 J	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.28 U	0.28 U	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	1.7	0.23	NA	NA
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.17 U	0.17 U	0.21 U	0.17 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	1.7	0.33	0.05 U	0.04 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.04 U	0.04 U	0.05 U	0.04 U
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.04 U	0.04 U	0.05 U	0.04 U
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.16	0.04 U	0.05 U	0.04 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.04 U	0.04 U	0.05 U	0.04 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.04 U	0.04 U	0.05 U	0.04 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.04 U	0.04 U	0.051	0.04 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.08 U	0.079 U	NA	NA
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.04 U	0.04 U	0.05 U	0.04 U
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	1.7	0.33	0.05 U	0.04 U
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.0806 J	0.19 U	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	0.96 U	0.19 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	0.96 U	0.19 U
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	0.96 U	0.19 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	0.96 U	0.19 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.19 U	0.96 U	0.19 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.19 U	0.19 U	0.96 U	0.19 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.19 U	0.19 U	0.96 U	0.19 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.19 U	0.19 U	0.96 U	0.19 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.19 U	0.19 U	0.96 U	0.19 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.75 U	0.76 U	3.8 UJ	0.74 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.75 U	0.76 U	0.96 U	0.19 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.19 U	0.96 U	0.19 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.19 U	0.19 U	0.96 U	0.19 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.19 U	0.19 U	0.96 U	0.19 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.46	0.19 U	0.96 U	0.19 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.19 U	0.96 U	0.19 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.75 U	0.76 U	3.8 U	0.74 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.19 U	0.19 U	0.96 U	0.19 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.38 UJ	0.39 UJ	1.9 U	0.37 U

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-06 7 - 9 09/12/01	RFI-83/84-06 9 - 11 09/12/01	RFI-83/84-10 0 - 2 01/29/01	RFI-83/84-10 8 - 10 01/29/01
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.75 UJ	0.76 U	3.8 U	0.74 UJ
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.75 U	0.76 U	3.8 UJ	0.74 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.75 U	0.76 U	3.8 UJ	0.74 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.19 U	0.96 UJ	0.19 UJ
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.19 U	0.19 U	0.96 U	0.19 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.75 U	0.76 U	3.8 UJ	0.74 UJ
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.75 UJ	0.76 UJ	0.96 UJ	0.19 UJ
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.75 U	0.76 U	3.8 U	0.74 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.75 U	0.76 U	3.8 U	0.74 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.0846 J	0.19 U	2.2	0.19 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.19 U	0.19 U	0.96 U	0.19 U
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.19 U	0.19 U	NA	NA
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.157 J	0.19 U	3.8	0.19 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.19 U	0.19 U	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.19 U	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.44 J	0.19 U	7.9	0.24 J
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.19 UJ	0.19 UJ	**8.3 J (NDC (2013))**	0.2 J
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.118 J	0.19 UJ	7.8 J	0.19 UJ
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.159 J	0.19 UJ	5.8 J	0.23 J
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.0557 J	0.19 UJ	7.3 J	0.19 UJ
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.19 U	0.96 UJ	0.19 UJ
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.037 U	0.038 U	0.96 U	0.19 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.19 UJ	0.19 U	0.96 U	0.19 UJ
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.19 UJ	0.19 U	0.96 U	0.19 UJ
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.19 U	0.19 U	NA	NA
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.19 U	0.19 U	2	0.19 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.65 J	0.0407 J	8.7	0.35 J
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.19 UJ	0.19 UJ	0.95 J	0.19 UJ
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.0665 J	0.19 U	0.96 U	0.19 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.19 U	0.19 U	0.96 UJ	0.19 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.19 U	0.19 U	0.96 UJ	0.19 UJ
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.19 U	0.19 U	0.96 U	0.19 U
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.19 UJ	0.19 UJ	0.96 UJ	0.19 UJ
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.133 J	0.19 U	13	0.49
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.18 J	0.19 U	1.6	0.19 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.19 U	0.19 U	0.96 U	0.19 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.19 U	0.19 U	0.96 U	0.19 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.19 U	0.19 U	0.96 UJ	0.19 UJ
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.19 U	0.19 U	0.96 U	0.19 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.19 UJ	0.19 UJ	5.4 J	0.19 UJ
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.19 U	0.19 U	0.96 U	0.19 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.19 U	0.19 U	0.96 U	0.19 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.376	0.0479 J	0.96 U	0.19 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.075 U	0.076 U	0.96 U	0.19 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.19 U	0.19 U	0.96 U	0.19 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.19 U	0.19 U	0.96 U	0.19 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.75 U	0.76 U	0.96 U	0.19 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.876	0.19 U	11	1.3

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-06 7 - 9 09/12/01	RFI-83/84-06 9 - 11 09/12/01	RFI-83/84-10 0 - 2 01/29/01	RFI-83/84-10 8 - 10 01/29/01
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.19 U	0.19 U	0.96 U	0.19 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.876 J	0.19 U	17	0.65 J
PCB											
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.04 U	NA	NA
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.04 U	NA	NA
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.04 U	NA	NA
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.04 U	NA	NA
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.04 U	NA	NA
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.04 U	NA	NA
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.04 U	NA	NA
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.039 U	0.04 U	NA	NA
Inorganic											
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	3.7 J	0.22 UJ	NA	NA
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	**15 J (SDBL (2013))**	5.1 J	5.72 J	2.66 J
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	69 J	**91 J (SDBL (2013))**	**212 J (SDBL (2013))**	12.1 J
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.41	0.9	NA	NA
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	**1.5 J (SDBL (2013))**	**1.8 J (SDBL (2013))**	0.0899	0.0849
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	**29 (SDBL (2013))**	**28 (SDBL (2013))**	14.9	12.2
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	**8.1 J (SDBL (2013))**	5.9 J	NA	NA
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	**7,100 J (SDBL (2013))**	**90 J (SDBL (2013))**	NA	NA
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	**3.1 (SDBL (2013))**	0.067 J	NA	NA
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**2,300 J (NDC (2013),SDBL (2013))**	**25 J (SDBL (2013))**	**857 (SDBL (2013))**	7.62
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	**750 J (SDBL (2013))**	420 J	NA	NA
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	**0.146 (SDBL (2013))**	0.0406 J	0.0958	0.022 U
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	**45 J (SDBL (2013))**	**28 J (SDBL (2013))**	NA	NA
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	0.11	**2.5 (SDBL (2013))**	0.203	0.0967
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	**1.2 (SDBL (2013))**	0.2 J	**4.78 (SDBL (2013))**	0.18 U
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.096 J	0.2 J	NA	NA
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	22 J	14 J	NA	NA
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	**650 J (SDBL (2013))**	**64 J (SDBL (2013))**	NA	NA
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	897,000	876,000	888,000	904,000

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-10 10 - 12 01/29/01	RFI-83/84-12 0.7 - 2.7 12/07/01	RFI-83/84-12 2.7 - 4.7 12/07/01	RFI-83/84-13 1.1 - 3.1 12/07/01
VOC											
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.042 U [0.043 U]	0.04 U	0.042 U	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.042 U [0.043 UJ]	0.081 U	0.085 U	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	0.17 U	0.18 U	NA
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.042 U [0.043 U]	0.04 U	0.042 U	NA
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.042 U [0.043 U]	0.04 U	0.042 U	NA
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.042 U [0.043 U]	0.04 U	0.042 U	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	0.17 U	0.18 U	NA
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	NA	0.17 U	0.18 U	NA
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	NA	0.17 U	0.18 U	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	0.081 U	0.085 U	NA
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.042 U [0.043 U]	0.04 U	0.042 U	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	0.085 U [0.086 U]	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.042 U [0.043 U]	0.04 U	0.042 U	NA
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	0.081 U	0.085 U	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	0.081 U	0.085 U	NA
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.3 U [0.31 U]	0.29 UJ	0.3 UJ	NA
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.18 U [0.18 U]	0.29 UJ	0.3 UJ	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.18 U [0.18 U]	0.29 U	0.3 U	NA
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.3 U [0.31 U]	0.29 UJ	0.3 UJ	NA
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.042 U [0.043 U]	0.04 U	0.042 U	NA
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.042 U [0.043 U]	0.081 U	0.085 U	NA
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.042 U [0.043 U]	0.081 U	0.085 U	NA
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.18 UJ [0.18 UJ]	0.17 U	0.18 U	NA
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.18 U [0.18 U]	0.17 U	0.18 U	NA
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.042 U [0.043 U]	0.04 U	0.042 U	NA
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.042 U [0.043 U]	0.04 U	0.042 U	NA
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.18 U [0.18 U]	0.17 U	0.18 U	NA
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.042 U [0.043 U]	0.04 U	0.042 U	NA
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.18 U [0.18 U]	0.17 U	0.18 U	NA
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.042 U [0.043 U]	0.04 U	0.042 U	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.042 U [0.043 U]	0.04 U	0.042 U	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.042 J	0.18 U	NA
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.042 U [0.043 U]	0.081 U	0.085 U	NA
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	0.081 U	0.085 U	NA
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.042 U [0.043 U]	0.077	0.042 U	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-10 10 - 12 01/29/01	RFI-83/84-12 0.7 - 2.7 12/07/01	RFI-83/84-12 2.7 - 4.7 12/07/01	RFI-83/84-13 1.1 - 3.1 12/07/01
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	0.17 U	0.18 U	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.085 U [0.086 U]	0.19	0.037 J	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.17 U	0.12 J	NA
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	0.29 U	0.3 U	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.083 J	0.18 U	NA
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.18 U [0.18 U]	0.17 U	0.18 U	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.042 U [0.043 U]	0.053	0.042 U	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.042 U [0.043 U]	0.04 U	0.042 U	NA
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.042 U [0.043 U]	0.04 U	0.042 U	NA
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.042 U [0.043 U]	0.038 J	0.042 U	NA
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.042 U [0.043 U]	0.04 U	0.042 U	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.042 U [0.043 U]	0.04 U	0.042 U	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.042 U [0.043 U]	0.04 U	0.042 U	NA
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	0.081 U	0.085 U	NA
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.042 U [0.043 U]	0.04 U	0.042 U	NA
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.042 U [0.043 U]	0.053	0.042 U	NA
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.445 J	2 U	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.21 U [0.21 U]	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.21 U [0.21 U]	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.21 U [0.21 U]	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.21 U [0.21 U]	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.21 U [0.21 U]	0.98 U	2 U	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	0.98 U	R	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	0.98 U	R	NA
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	0.98 U	R	NA
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	0.98 U	R	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.81 U [0.82 U]	3.9 U	R	NA
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	3.9 U	8 U	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.21 U [0.21 U]	0.98 U	2 U	NA
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.21 U [0.21 U]	0.98 U	2 U	NA
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.21 U [0.21 U]	0.98 U	R	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.21 U [0.21 U]	0.882 J	2 U	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.21 U [0.21 U]	0.98 U	R	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.81 U [0.82 U]	3.9 U	8 U	NA
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	0.98 U	R	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.4 U [0.4 U]	2 UJ	R	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-10 10 - 12 01/29/01	RFI-83/84-12 0.7 - 2.7 12/07/01	RFI-83/84-12 2.7 - 4.7 12/07/01	RFI-83/84-13 1.1 - 3.1 12/07/01
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.81 UJ [0.82 UJ]	3.9 UJ	8 UJ	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.81 UJ [0.82 UJ]	3.9 U	8 U	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.81 U [0.82 U]	3.9 U	R	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.21 U [0.21 U]	0.98 U	2 U	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	0.98 U	R	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.81 UJ [0.82 UJ]	3.9 U	8 U	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.21 UJ [0.21 UJ]	3.9 U	8 U	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.81 U [0.82 U]	3.9 U	R	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.81 U [0.82 U]	3.9 U	8 U	NA
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.21 U [0.21 U]	0.591 J	0.704 J	NA
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.21 U [0.21 U]	0.98 U	2 U	NA
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	0.98 U	2 U	NA
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.21 U [0.21 U]	0.585 J	0.475 J	NA
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	0.98 U	2 U	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	NA	0.98 U	2 U	NA
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	0.658 J	0.451 J	NA
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	0.98 UJ	2 UJ	NA
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.21 U [0.21 U]	0.441 J	2 UJ	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	0.98 UJ	2 UJ	NA
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	0.72 J	2 UJ	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.21 UJ [0.21 UJ]	0.98 U	2 U	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.21 U [0.21 U]	0.19 U	0.39 U	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	1.08 J	1.74 J	NA
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	4.36 J	4.72 J	NA
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	0.98 U	2 U	NA
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	0.98 U	2 U	NA
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.21 U [0.21 U]	0.901 J	0.522 J	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	0.98 UJ	2 UJ	NA
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.21 U [0.21 U]	0.755 J	0.653 J	NA
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	0.98 U	2 U	NA
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.21 UJ [0.21 UJ]	0.98 U	2 U	NA
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	0.98 U	2 U	NA
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	0.98 UJ	2 UJ	NA
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.21 U [0.21 U]	1.53	1.31 J	NA
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.21 U [0.21 U]	2.16	2.37	NA
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.21 U [0.21 U]	0.98 U	2 U	NA
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.21 U [0.21 U]	0.98 U	2 U	NA
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.21 UJ [0.21 UJ]	0.98 U	2 U	NA
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.21 U [0.21 U]	0.98 U	2 U	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	0.98 UJ	2 UJ	NA
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	0.98 U	2 U	NA
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	0.98 U	R	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.21 U [0.21 U]	0.98 U	2 U	NA
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.21 U [0.21 U]	0.39 U	0.8 U	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	0.98 U	2 U	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	0.98 U	2 U	NA
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	3.9 U	R	NA
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.21 U [0.21 U]	4.52	2.89	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-10 10 - 12 01/29/01	RFI-83/84-12 0.7 - 2.7 12/07/01	RFI-83/84-12 2.7 - 4.7 12/07/01	RFI-83/84-13 1.1 - 3.1 12/07/01
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.21 U [0.21 U]	0.98 U	R	NA
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.21 U [0.21 U]	3.85 J	3.32 J	NA
PCB											
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	NA	0.04 U	0.042 U	NA
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	NA	0.04 U	0.042 U	NA
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	NA	0.04 U	0.042 U	NA
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	NA	0.04 U	0.042 U	NA
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	NA	0.04 U	0.042 U	NA
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	NA	0.04 U	0.042 U	NA
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	NA	0.04 U	0.04 J	NA
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	NA	0.04 U	0.04 J	NA
Inorganic											
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	NA	0.52 J	11 J	NA
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	4.64 J [4 J]	**7.5 J (SDBL (2013))**	**32 J (SDBL (2013))**	NA
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	20.4 J [13.1 J]	**1,300 J (SDBL (2013))**	**3,400 J (SDBL (2013))**	NA
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	NA	1.1 J	5.3 J	NA
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.0828 [0.115]	0.28	1.2	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	9.21 [5.19]	**37 (SDBL (2013))**	**73 (SDBL (2013))**	NA
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	NA	**8.8 J (SDBL (2013))**	**21 J (SDBL (2013))**	NA
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	NA	**360 (SDBL (2013))**	**5,800 (SDBL (2013))**	NA
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	0.16 J	0.14 J	NA
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	17 [11.4]	**150 (SDBL (2013))**	**2,900 (NDC (2013),SDBL (2013))**	**78 (SDBL (2013))**
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	NA	**630 (SDBL (2013))**	**1,500 (SDBL (2013))**	NA
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.023 U [0.025 U]	0.0712 J	0.0929 J	NA
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	NA	**56 J (SDBL (2013))**	**83 J (SDBL (2013))**	NA
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	0.21 [0.156]	0.064 J	**0.5 J (SDBL (2013))**	NA
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.23 U [0.25 U]	0.16 J	**2.1 (SDBL (2013))**	NA
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	NA	0.069 J	0.1 J	NA
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	18	33	NA
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	NA	**110 J (SDBL (2013))**	**750 J (SDBL (2013))**	NA
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	823,000 [819,000]	865,000	842,000	931,000

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-13 3.1 - 5.1 12/07/01	RFI-83/84-14 0.8 - 1 12/10/01	RFI-83/84-15 1.2 - 3 12/10/01	RFI-83/84-21 0.7 - 2.7 12/07/01
VOC											
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	0.038 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	NA	NA	NA	0.076 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	0.16 U
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	NA	NA	NA	0.038 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	0.038 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	0.038 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	0.16 U
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	0.16 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	0.16 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	0.076 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	NA	NA	NA	0.038 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	0.038 U
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	0.076 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	0.076 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	0.063 J
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	0.27 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	0.27 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	0.27 UJ
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	0.36
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	NA	NA	NA	0.076 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	0.076 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	NA	NA	NA	0.16 U
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	0.16 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	0.038 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	0.038 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	0.16 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	0.038 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	0.038 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.038 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.05 J
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	NA	NA	NA	0.076 U
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	0.076 U
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	0.043

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-13 3.1 - 5.1 12/07/01	RFI-83/84-14 0.8 - 1 12/10/01	RFI-83/84-15 1.2 - 3 12/10/01	RFI-83/84-21 0.7 - 2.7 12/07/01
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	0.036 J
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.14
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.72
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	0.27 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.091 J
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	0.16 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.052
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	0.038 U
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	0.038 U
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	0.15
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	0.038 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.038 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	0.038 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	0.076 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	NA	NA	NA	0.038 U
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	0.052
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.18 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.18 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	0.18 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	0.18 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	0.18 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	0.18 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.71 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	0.71 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.18 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	0.18 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	NA	NA	NA	0.18 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	0.107 J
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.18 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.71 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	0.18 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.36 UJ

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-13 3.1 - 5.1 12/07/01	RFI-83/84-14 0.8 - 1 12/10/01	RFI-83/84-15 1.2 - 3 12/10/01	RFI-83/84-21 0.7 - 2.7 12/07/01
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	0.71 UJ
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.71 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	0.71 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.18 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	0.18 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.71 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.71 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.71 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.71 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	0.132 J
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	0.18 U
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	0.18 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	0.276
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	0.18 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.18 U
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	0.736 J
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	0.758 J
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	0.74 J
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	0.644 J
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	0.747 J
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.18 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	NA	NA	NA	0.035 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	0.18 UJ
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	0.18 UJ
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	0.18 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	0.138 J
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	0.824 J
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	0.18 UJ
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	0.0831 J
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	0.18 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	0.18 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	0.18 U
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	0.18 UJ
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	1.2
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	0.139 J
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	NA	NA	NA	0.18 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	0.18 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	0.18 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	0.18 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	0.468 J
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	0.18 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	0.18 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	0.102 J
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	NA	NA	NA	0.071 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	0.18 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	0.18 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	0.71 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	NA	NA	NA	0.975

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-13 3.1 - 5.1 12/07/01	RFI-83/84-14 0.8 - 1 12/10/01	RFI-83/84-15 1.2 - 3 12/10/01	RFI-83/84-21 0.7 - 2.7 12/07/01
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	0.18 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	2.22 J
PCB											
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	0.037 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	0.037 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	0.037 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	0.037 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	0.037 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	0.037 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	0.037 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	NA	NA	NA	0.037 U
Inorganic											
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	0.57 J
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	5.5 J
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	64 J
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	0.43 J
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	0.18
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	NA	NA	NA	**36 (SDBL (2013))**
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	3.7 J
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	**940 (SDBL (2013))**
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	0.039 J
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**640 (SDBL (2013))**	**3,600 (NDC (2013),SDBL (2013))**	**35 J (SDBL (2013))**	**220 (SDBL (2013))**
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	290
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	NA	NA	NA	0.0525 J
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	**33 J (SDBL (2013))**
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	0.076 J
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	0.28
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	0.044 J
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	7.3
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	47 J
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	871,000	920,000	947,000	942,000

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-21 6.7 - 8.7 12/07/01	RFI-83/84-22 1.1 - 3.1 12/07/01	RFI-83/84-22 3.1 - 5.1 12/07/01	RFI-83/84-22 7.1 - 9.1 12/07/01
VOC											
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.044 U	0.037 U	0.039 U	0.04 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.088 U	0.074 U	0.078 U	0.08 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.19 U	0.16 U	0.17 U	0.17 U
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.044 U	0.037 U	0.039 U	0.04 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.044 U	0.037 U	0.039 U	0.04 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.044 U	0.037 U	0.039 U	0.04 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.19 U	0.16 U	0.17 U	0.17 U
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.19 U	0.16 U	0.17 U	0.17 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.19 U	0.16 U	0.17 U	0.17 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.088 U	0.074 U	0.078 U	0.08 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.044 U	0.037 U	0.039 U	0.04 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.044 U	0.037 U	0.039 U	0.04 U
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.088 U	0.074 U	0.078 U	0.08 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.088 U	0.074 U	0.078 U	0.08 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.083 J	0.26 UJ	0.28 UJ	0.29 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.31 U	0.26 UJ	0.28 U	0.29 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.31 U	0.26 U	0.28 U	0.29 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.31 UJ	0.26 UJ	0.28 UJ	0.29 U
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.62	0.22	0.081	0.04 U
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.088 U	0.074 U	0.078 U	0.08 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.088 U	0.074 U	0.078 U	0.08 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.19 U	0.16 U	0.17 U	0.17 U
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.19 U	0.16 U	0.17 U	0.17 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.044 U	0.037 U	0.039 U	0.04 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.044 U	0.037 U	0.039 U	0.04 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.19 U	0.16 U	0.17 U	0.17 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.044 U	0.037 U	0.039 U	0.04 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.19 U	0.16 U	0.17 U	0.17 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.044 U	0.037 U	0.039 U	0.04 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.044 U	0.037 U	0.039 U	0.04 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.078 J	0.45	0.2	0.27
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.088 U	0.074 U	0.078 U	0.08 U
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.088 U	0.074 U	0.078 U	0.08 U
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.12	0.51	0.27	0.066

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-21 6.7 - 8.7 12/07/01	RFI-83/84-22 1.1 - 3.1 12/07/01	RFI-83/84-22 3.1 - 5.1 12/07/01	RFI-83/84-22 7.1 - 9.1 12/07/01
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.12 J	0.17	0.084 J	0.037 J
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.23	1.2	0.65	0.18
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.37	0.16 U	0.17 U	0.17 U
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.31 U	0.26 U	0.28 U	0.29 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.15 J	2	1	1.1
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.19 U	0.16 U	0.17 U	0.17 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.099	0.66	0.29	0.084
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.044 U	0.037 U	0.039 U	0.04 U
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.044 U	0.037 U	0.039 U	0.04 U
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.27	0.44	0.2	0.04 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.044 U	0.037 U	0.039 U	0.04 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.044 U	0.037 U	0.039 U	0.04 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.044 U	0.037 U	0.039 U	0.04 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.088 U	0.074 U	0.078 U	0.08 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.044 U	0.037 U	0.039 U	0.04 U
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.099	0.66	0.29	0.084
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	2.1 U	0.9 U	9.4 U	0.0905 J
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	2.1 U	0.9 U	9.4 U	0.19 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	2.1 U	0.9 U	9.4 U	0.19 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	2.1 U	0.9 U	9.4 U	0.19 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	2.1 U	0.9 U	9.4 U	0.19 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	2.1 U	0.9 U	9.4 U	0.19 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	8.4 UJ	3.5 UJ	37 UJ	0.75 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	8.4 U	3.5 U	37 U	0.75 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	2.1 U	0.9 U	9.4 U	0.19 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	2.1 U	0.9 U	9.4 U	0.19 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	2.1 U	0.9 U	9.4 U	0.19 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	2.1 U	0.544 J	9.4 U	0.307
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	2.1 U	0.9 U	9.4 U	0.19 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	8.4 U	3.5 U	37 U	0.75 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	2.1 U	0.9 U	9.4 U	0.19 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	4.2 UJ	1.8 UJ	19 UJ	0.38 UJ

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-21 6.7 - 8.7 12/07/01	RFI-83/84-22 1.1 - 3.1 12/07/01	RFI-83/84-22 3.1 - 5.1 12/07/01	RFI-83/84-22 7.1 - 9.1 12/07/01
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	8.4 U	3.5 UJ	**37 U**	0.75 UJ
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	8.4 U	3.5 U	37 U	0.75 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	8.4 U	3.5 U	37 U	0.75 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	2.1 U	0.9 U	9.4 U	0.19 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	2.1 U	0.9 U	9.4 U	0.19 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	8.4 U	3.5 U	37 U	0.75 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	8.4 U	3.5 U	37 U	0.75 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	8.4 U	3.5 U	37 U	0.75 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	8.4 U	3.5 U	37 U	0.75 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	3.4	0.432 J	23.9	0.19 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	2.1 U	0.9 U	9.4 U	0.19 U
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	2.1 U	0.9 U	9.4 U	0.19 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	6.7 D	0.398 J	61.2 D	0.0917 J
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	2.1 U	0.9 U	9.4 U	0.19 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	2.1 U	0.9 U	9.4 U	0.19 U
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	12.8 D	1.08 J	**81.2 D (NDC (2013))**	0.299 J
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	**13.1 JD (NDC (2013))**	1.63 J	**66.1 JD (NDC (2013))**	0.19 UJ
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	11 JD	1.35 J	62.9 JD	0.19 UJ
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	6.02 JD	1.23 J	27.8 JD	0.19 UJ
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	10.9 JD	0.837 J	58.6 JD	0.19 UJ
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	2.1 U	0.9 U	9.4 U	0.19 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.41 U	0.17 U	1.8 U	0.037 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	2.1 U	0.9 UJ	9.4 U	0.19 UJ
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	2.1 U	0.247 J	9.4 U	0.19 UJ
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	2.1 U	0.9 U	9.4 U	0.19 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	2.71	0.9 U	39.9 D	0.19 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	13.3 D	1.58 J	84.8 D	0.324 J
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	2.82 J	0.9 UJ	**16.9 J (NDC (2013))**	0.19 UJ
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	1.56 J	0.231 J	16.7	0.19 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	2.1 U	0.9 U	9.4 U	0.19 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	2.1 U	0.9 U	9.4 U	0.19 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	2.1 U	0.9 U	9.4 U	0.19 U
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	2.1 UJ	0.9 UJ	9.4 UJ	0.19 UJ
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	23.5 D	1.94	178 D	0.17 J
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	3.77	0.442 J	34.5 D	0.412
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	2.1 U	0.9 U	9.4 U	0.19 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	2.1 U	0.9 U	9.4 U	0.19 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	2.1 U	0.9 U	9.4 U	0.19 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	2.1 U	0.9 U	9.4 U	0.19 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	13.3 EJ	0.925 J	29.1 JD	0.19 UJ
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	2.1 U	0.9 U	9.4 U	0.19 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	2.1 U	0.9 U	9.4 U	0.19 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	1.79 J	0.629 J	4.79 J	0.103 J
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.84 U	0.35 U	3.7 U	0.075 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	2.1 U	0.9 U	**9.4 U**	0.19 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	2.1 U	0.9 U	9.4 U	0.19 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	8.4 U	3.5 U	37 U	0.75 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	20 D	1.95	**192 D (NVSICI (2013))**	0.811

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-21 6.7 - 8.7 12/07/01	RFI-83/84-22 1.1 - 3.1 12/07/01	RFI-83/84-22 3.1 - 5.1 12/07/01	RFI-83/84-22 7.1 - 9.1 12/07/01
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	2.1 U	0.9 U	9.4 U	0.19 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	25.3 D	4.65 J	162 D	0.69 J
PCB											
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.044 U	0.037 U	0.039 U	0.039 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.044 U	0.037 U	0.039 U	0.039 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.044 U	0.037 U	0.039 U	0.039 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.044 U	0.037 U	0.039 U	0.039 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.044 U	0.037 U	0.039 U	0.039 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.044 U	0.23	0.098	0.039 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.044 U	0.053	0.039 U	0.039 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.044 U	0.283	0.098	0.039 U
Inorganic											
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	21 J	1.2 J	1.1 J	R
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	**47 J (NDC (2013),SDBL (2013))**	2.5 J	**7.2 J (SDBL (2013))**	5.8 J
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	**530 J (SDBL (2013))**	27 J	**89 J (SDBL (2013))**	34 J
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	5.6 J	0.31 J	0.51 J	0.56 J
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	**2.2 (SDBL (2013))**	0.19	0.3	0.15
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	**270 (SDBL (2013))**	**20 (SDBL (2013))**	**37 (SDBL (2013))**	11
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	**92 J (SDBL (2013))**	2.4 J	4.8 J	6.1 J
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	**6,500 (SDBL (2013))**	**370 (SDBL (2013))**	**510 (SDBL (2013))**	12
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.049 J	0.24 J	0.23 J	0.2 UJ
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**2,900 (NDC (2013),SDBL (2013))**	**530 (SDBL (2013))**	**300 (SDBL (2013))**	9.5
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	**3,500 (NPSIC (2013),SDBL (2013))**	190	380	120
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	**0.132 J (SDBL (2013))**	0.117 J	0.0876 J	0.0188 J
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	**94 J (SDBL (2013))**	16 J	**28 J (SDBL (2013))**	12 J
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	**1.1 J (SDBL (2013))**	0.14 J	0.12 J	0.094 J
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	**1.2 (SDBL (2013))**	0.44	0.22 J	0.044 J
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.13 J	0.044 J	0.069 J	0.12 J
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	66	5.3	12	16
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	**2,900 J (SDBL (2013))**	46 J	**110 J (SDBL (2013))**	31 J
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	802,000	945,000	908,000	890,000

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-23 1 - 3 12/07/01	RFI-83/84-23 5 - 7 12/07/01	RFI-83/84-24 0.8 - 2.8 12/07/01
VOC										
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.035 U [0.035 U]	0.038 U	0.037 U [0.036 U]
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.071 U [0.07 U]	0.076 U	0.073 U [0.072 U]
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.15 U [0.15 U]	0.16 U	0.16 U [0.15 U]
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.035 U [0.035 U]	0.038 U	0.037 U [0.036 U]
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.035 U [0.035 U]	0.077	0.037 U [0.036 U]
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.035 U [0.035 U]	0.038 U	0.037 U [0.036 U]
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.15 U [0.15 U]	0.16 U	0.16 U [0.15 U]
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.15 U [0.15 U]	0.16 U	0.16 U [0.15 U]
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.15 U [0.15 U]	0.16 U	0.16 U [0.15 U]
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.071 U [0.07 U]	0.076 U	0.073 U [0.072 U]
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.035 U [0.035 U]	0.038 U	0.037 U [0.036 U]
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.035 U [0.035 U]	0.038 U	0.037 U [0.036 U]
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.071 U [0.07 U]	0.076 U	0.073 U [0.072 U]
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.071 U [0.07 U]	0.076 U	0.073 U [0.072 U]
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.25 U [0.25 U]	0.27 J	0.26 UJ [0.26 UJ]
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.25 U [0.25 U]	0.27 UJ	0.26 U [0.26 U]
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.25 U [0.25 U]	0.27 U	0.26 U [0.26 U]
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.25 U [0.25 U]	0.27 UJ	0.26 UJ [0.26 UJ]
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.035 U [0.035 U]	1.4	0.037 U [0.036 U]
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.071 U [0.07 U]	0.076 U	0.073 U [0.072 U]
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.071 U [0.07 U]	0.076 U	0.073 U [0.072 U]
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.15 U [0.15 U]	0.16 U	0.16 U [0.15 U]
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.15 U [0.15 U]	0.16 U	0.16 U [0.15 U]
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.035 U [0.035 U]	0.038 U	0.037 U [0.036 U]
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.035 U [0.035 U]	0.038 U	0.037 U [0.036 U]
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.15 U [0.15 U]	0.16 U	0.16 U [0.15 U]
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.035 U [0.035 U]	0.038 U	0.037 U [0.036 U]
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.15 U [0.15 U]	0.16 U	0.16 U [0.15 U]
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.035 U [0.035 U]	0.083	0.037 U [0.036 U]
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.035 U [0.035 U]	0.038 U	0.037 U [0.036 U]
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.15 U [0.15 U]	0.076 J	0.16 U [0.15 U]
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.071 U [0.07 U]	0.076 U	0.073 U [0.072 U]
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.071 U [0.07 U]	0.076 U	0.073 U [0.072 U]
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.035 U [0.035 U]	0.31	0.037 U [0.036 U]

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-23 1 - 3 12/07/01	RFI-83/84-23 5 - 7 12/07/01	RFI-83/84-24 0.8 - 2.8 12/07/01
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.15 U [0.15 U]	0.13 J	0.16 U [0.15 U]
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.03 J [0.07 U]	1.2	0.073 U [0.072 U]
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.33 [0.43]	0.16 J	0.031 J [0.042 J]
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.25 U [0.25 U]	0.27 U	0.26 U [0.26 U]
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.15 U [0.15 U]	0.23	0.16 U [0.15 U]
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.15 U [0.15 U]	0.16 U	0.16 U [0.15 U]
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.035 U [0.035 U]	0.45	0.037 U [0.036 U]
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.035 U [0.035 U]	0.038 U	0.037 U [0.036 U]
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.035 U [0.035 U]	0.038 U	0.037 U [0.036 U]
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.035 U [0.035 U]	0.45	0.037 U [0.036 U]
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.035 U [0.035 U]	0.038 U	0.037 U [0.036 U]
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.035 U [0.035 U]	0.038 U	0.037 U [0.036 U]
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.035 U [0.035 U]	0.035 J	0.037 U [0.036 U]
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.071 U [0.07 U]	0.076 U	0.073 U [0.072 U]
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.035 U [0.035 U]	0.038 U	0.037 U [0.036 U]
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.035 U [0.035 U]	0.45	0.037 U [0.036 U]
SVOC										
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.68 U [0.68 U]	3.7 U	0.69 U [0.69 U]
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.68 U [0.68 U]	3.7 U	0.69 U [0.69 U]
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.17 U [0.17 U]	0.632 J	0.17 U [0.17 U]
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.68 U [0.68 U]	3.7 U	0.69 U [0.69 U]
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.35 UJ [0.35 UJ]	1.9 UJ	0.35 UJ [0.35 UJ]

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-23 1 - 3 12/07/01	RFI-83/84-23 5 - 7 12/07/01	RFI-83/84-24 0.8 - 2.8 12/07/01
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.68 UJ [0.68 U]	3.7 UJ	0.69 U [0.69 U]
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.68 U [0.68 U]	3.7 U	0.69 U [0.69 U]
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.68 U [0.68 U]	3.7 U	0.69 U [0.69 U]
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.68 U [0.68 U]	3.7 U	0.69 U [0.69 U]
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.68 U [0.68 U]	3.7 U	0.69 U [0.69 U]
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.68 U [0.68 U]	3.7 U	0.69 U [0.69 U]
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.68 U [0.68 U]	3.7 U	0.69 U [0.69 U]
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.17 U [0.17 U]	0.483 J	0.17 U [0.17 U]
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.055 J [0.0357 J]	0.252 J	0.17 U [0.17 U]
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.142 J [0.0839 J]	1.34 J	0.17 U [0.17 U]
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.17 UJ [0.17 UJ]	0.608 J	0.17 U [0.17 U]
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.17 UJ [0.17 UJ]	0.684 J	0.17 U [0.17 U]
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.17 UJ [0.17 UJ]	0.94 UJ	0.17 U [0.17 U]
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.17 UJ [0.17 UJ]	0.658 J	0.17 U [0.17 U]
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.034 U [0.034 U]	0.18 U	0.034 U [0.034 U]
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.17 UJ [0.17 U]	0.94 UJ	0.17 U [0.17 U]
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.17 UJ [0.17 U]	0.94 UJ	0.17 U [0.17 U]
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.0404 J [0.17 U]	0.94 U	0.17 U [0.17 U]
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.134 J [0.0945 J]	1.97 J	0.17 U [0.17 U]
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.17 UJ [0.17 UJ]	0.94 UJ	0.17 U [0.17 U]
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.17 U [0.17 U]	0.265 J	0.17 U [0.17 U]
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.0597 J [0.17 U]	0.94 U	0.17 U [0.17 U]
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.17 UJ [0.17 UJ]	0.94 UJ	0.17 U [0.17 U]
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.314 [0.227]	0.849 J	0.17 U [0.17 U]
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.0604 J [0.0442 J]	0.592 J	0.17 U [0.17 U]
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.17 UJ [0.17 UJ]	0.94 UJ	0.17 U [0.17 U]
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.17 U [0.17 U]	0.355 J	0.0354 J [0.17 U]
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.068 U [0.068 U]	0.37 U	0.069 U [0.069 U]
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.68 U [0.68 U]	3.7 U	0.69 U [0.69 U]
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.302 [0.212]	2.05	0.17 U [0.17 U]

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-23 1 - 3 12/07/01	RFI-83/84-23 5 - 7 12/07/01	RFI-83/84-24 0.8 - 2.8 12/07/01
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.17 U [0.17 U]	0.94 U	0.17 U [0.17 U]
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.439 J [0.276]	3.18 J	0.17 U [0.17 U]
PCB										
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.036 U [0.036 U]	0.039 U	0.036 U [0.036 U]
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.036 U [0.036 U]	0.039 U	0.036 U [0.036 U]
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.036 U [0.036 U]	0.039 U	0.036 U [0.036 U]
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.036 U [0.036 U]	0.039 U	0.036 U [0.036 U]
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.036 U [0.036 U]	0.039 U	0.036 U [0.036 U]
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.036 U [0.036 U]	0.039 U	0.036 U [0.036 U]
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.036 U [0.036 U]	0.039 U	0.036 U [0.036 U]
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.036 U [0.036 U]	0.039 U	0.036 U [0.036 U]
Inorganic										
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.033 J [0.035 J]	22 J	0.019 J [0.02 J]
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	2.8 J [2.4 J]	**28 J (SDBL (2013))**	2.7 J [2.8 J]
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	11 J [11 J]	**240 J (SDBL (2013))**	7.5 J [7.3 J]
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.28 J [0.3 J]	11 J	0.24 J [0.2 J]
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.12 [0.12]	**2.6 (SDBL (2013))**	0.099 [0.083]
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	6.6 [5.5]	**99 (SDBL (2013))**	6.1 [4.8]
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	2.1 J [2.5 J]	**23 J (SDBL (2013))**	2 J [1.9 J]
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	10 [12]	**12,000 (SDBL (2013))**	6.8 [6.7]
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.2 UJ [0.2 UJ]	0.2 UJ	0.2 UJ [0.2 UJ]
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	10 [7.5]	**6,500 (NDC (2013),SDBL (2013))**	5.3 [4.8]
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	180 [180]	**2,600 (NPSIC (2013),SDBL (2013))**	150 [140]
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.071 UJ [0.069 UJ]	0.0994 J	0.069 UJ [0.072 UJ]
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	6.8 J [6.8 J]	**76 J (SDBL (2013))**	5.9 J [5.2 J]
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	0.062 J [0.11 J]	**1.1 J (SDBL (2013))**	0.11 J [0.065 J]
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.042 J [0.042 J]	**3.6 (SDBL (2013))**	0.029 J [0.021 J]
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.046 J [0.048 J]	0.12 J	0.043 J [0.042 J]
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	7.6 [7.4]	51	6.2 [6.4]
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	23 J [21 J]	**1,900 J (SDBL (2013))**	16 J [16 J]
Miscellaneous										
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	981,000 [980,000]	906,000	977,000 [976,000]

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-24 4.8 - 6.8 12/07/01	RFI-83/84-24 6.8 - 8.8 12/07/01	RFI-83/84-25 0.7 - 2.7 12/05/01	RFI-83/84-25 8.7 - 10.7 12/05/01
VOC											
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.038 U	0.04 U	0.037 U	0.038 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.077 U	0.079 U	0.073 U	0.075 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.16 U	0.17 U	0.16 U	0.16 U
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.038 U	0.04 U	0.037 U	0.038 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.038 U	0.04 U	0.037 U	0.038 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.038 U	0.04 U	0.037 U	0.038 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.16 U	0.17 U	0.16 U	0.16 U
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.16 U	0.17 U	0.16 U	0.16 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.16 U	0.17 U	0.16 U	0.16 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.077 U	0.079 U	0.073 U	0.075 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.038 U	0.04 U	0.037 U	0.038 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.038 U	0.04 U	0.037 U	0.038 U
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.077 U	0.079 U	0.073 U	0.075 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.077 U	0.079 U	0.073 U	0.075 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.15 J	0.079 J	0.26 U	0.27 UJ
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.27 U	0.28 U	0.26 U	0.27 UJ
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.27 U	0.28 U	0.26 U	0.27 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.46 J	0.23 J	0.26 UJ	0.27 UJ
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.17 J	0.08	0.037 U	0.038 U
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.077 U	0.079 U	0.073 U	0.075 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.077 U	0.079 U	0.073 U	0.075 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.16 U	0.17 U	0.16 U	0.16 U
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.16 U	0.17 U	0.16 U	0.16 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.038 U	0.04 U	0.037 U	0.038 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.038 U	0.04 U	0.037 U	0.038 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.16 U	0.17 U	0.16 U	0.16 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.038 U	0.04 U	0.037 U	0.038 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.16 U	0.17 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.038 U	0.04 U	0.037 U	0.038 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.038 U	0.04 U	0.037 U	0.038 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.24 J	0.15 J	0.16 U	0.16 U
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.077 U	0.079 U	0.073 U	0.075 U
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.077 U	0.079 U	0.073 U	0.075 U
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.59 J	0.11	0.037 U	0.038 U

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-24 4.8 - 6.8 12/07/01	RFI-83/84-24 6.8 - 8.8 12/07/01	RFI-83/84-25 0.7 - 2.7 12/05/01	RFI-83/84-25 8.7 - 10.7 12/05/01
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.63	0.39	0.16 U	0.16 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	2.4 J	0.37	0.073 U	0.075 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.23 J	0.13 J	0.16 U	0.16 U
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.27 U	0.28 U	0.26 U	0.27 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	1.8 J	1.2	0.16 U	0.16 U
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.16 U	0.17 U	0.16 U	0.16 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	1.3 J	0.28	0.037 U	0.038 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.038 U	0.04 U	0.037 U	0.038 U
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.038 U	0.04 U	0.037 U	0.038 U
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.099 J	0.03 J	0.037 U	0.038 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.038 U	0.04 U	0.037 U	0.038 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.038 U	0.04 U	0.037 U	0.038 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.038 U	0.04 U	0.082	0.038 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.077 U	0.079 U	0.073 U	0.075 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.038 U	0.04 U	0.037 U	0.038 U
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	1.3 J	0.28	0.037 U	0.038 U
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.713 J	0.98 U	0.18 U	0.18 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.94 U	0.98 U	0.18 U	0.18 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.94 U	0.98 U	0.18 U	0.18 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.94 U	0.98 U	0.18 U	0.18 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.94 U	0.98 U	0.18 U	0.18 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.94 U	0.98 U	0.18 U	0.18 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	3.7 U	3.8 UJ	0.71 U	0.72 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	3.7 U	3.8 U	0.71 U	0.72 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.94 U	0.98 U	0.18 U	0.18 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.94 U	0.98 U	0.18 U	0.18 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.94 U	0.98 U	0.18 U	0.18 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	4.14	2.2	0.18 U	0.18 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.94 U	0.98 U	0.18 U	0.18 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	3.7 U	3.8 U	0.71 U	0.72 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.94 U	0.98 U	0.18 U	0.18 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	1.9 UJ	2 UJ	0.36 UJ	0.37 UJ

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-24 4.8 - 6.8 12/07/01	RFI-83/84-24 6.8 - 8.8 12/07/01	RFI-83/84-25 0.7 - 2.7 12/05/01	RFI-83/84-25 8.7 - 10.7 12/05/01
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	3.7 UJ	3.8 UJ	0.71 U	0.72 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	3.7 U	3.8 U	0.71 U	0.72 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	3.7 UJ	3.8 UJ	0.71 U	0.72 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.94 UJ	0.98 UJ	0.18 U	0.18 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.94 U	0.98 U	0.18 U	0.18 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	3.7 U	3.8 U	0.71 U	0.72 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	3.7 U	3.8 U	0.71 U	0.72 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	3.7 U	3.8 U	0.71 U	0.72 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	3.7 U	3.8 U	0.71 U	0.72 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.706 J	1.02	0.18 U	0.18 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.94 U	0.98 U	0.18 U	0.18 U
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.94 U	0.98 U	0.18 U	0.18 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.261 J	1.06 J	0.18 U	0.18 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.94 UJ	0.98 UJ	0.18 UJ	0.18 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.94 U	0.98 U	0.18 UJ	0.18 U
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	1.6 J	1.52 J	0.0344 J	0.18 U
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.94 UJ	0.409 J	0.18 U	0.18 U
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.94 UJ	0.698 J	0.18 U	0.18 U
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.94 UJ	0.361 J	0.18 U	0.18 U
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.94 UJ	0.317 J	0.18 U	0.18 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.94 U	0.98 U	0.18 U	0.18 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.18 U	0.19 U	0.035 U	0.036 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.94 UJ	0.98 UJ	0.18 U	0.18 U
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.94 UJ	0.98 UJ	0.0463 J	0.18 U
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.94 U	0.98 U	0.18 U	0.18 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.94 UJ	0.98 UJ	0.18 UJ	0.18 UJ
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	2.72	3.27 J	0.0386 J	0.18 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.94 UJ	0.98 UJ	0.18 U	0.18 U
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.836 J	0.868 J	0.18 U	0.18 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.94 U	0.98 U	0.18 U	0.18 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.94 U	0.98 U	0.18 U	0.18 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.94 UJ	0.98 UJ	0.18 U	0.18 U
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.94 UJ	0.98 UJ	0.18 U	0.18 U
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.355 J	1.78 J	0.0866 J	0.18 U
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	1.02	1.93	0.18 U	0.18 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.94 UJ	0.98 UJ	0.18 U	0.18 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.94 U	0.98 U	0.18 U	0.18 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.94 U	0.98 U	0.18 U	0.18 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.94 U	0.98 U	0.18 U	0.18 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.94 UJ	0.373 J	0.18 U	0.18 U
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.94 U	0.98 U	0.18 U	0.18 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.94 U	0.98 U	0.18 U	0.18 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	2.3	1.32	0.18 U	0.18 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.37 U	0.38 U	0.071 U	0.072 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.94 U	0.98 U	0.18 U	0.18 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.94 UJ	0.98 UJ	0.18 U	0.18 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	3.7 UJ	3.8 UJ	0.71 U	0.72 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	2.97 J	6.07 JD	0.081 J	0.18 U

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-24 4.8 - 6.8 12/07/01	RFI-83/84-24 6.8 - 8.8 12/07/01	RFI-83/84-25 0.7 - 2.7 12/05/01	RFI-83/84-25 8.7 - 10.7 12/05/01
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.94 U	0.98 U	0.18 U	0.18 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	2.84 J	3.94 J	0.0599 J	0.18 U
PCB											
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.04 U	0.037 U	0.038 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.04 U	0.037 U	0.038 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.04 U	0.037 U	0.038 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.04 U	0.037 U	0.038 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.04 U	0.037 U	0.038 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.18	0.037 U	0.038 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.04 U	0.037 U	0.038 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.039 U	0.18	0.037 U	0.038 U
Inorganic											
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	18 J	0.49 J	R	R
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	**11 J (SDBL (2013))**	**10 J (SDBL (2013))**	2 J	2.3 J
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	69 J	70 J	8.5	8.7
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	6.2 J	0.98 J	0.083 J	0.17 J
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	1	0.32	0.022	0.066
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	**180 (SDBL (2013))**	**28 (SDBL (2013))**	**22 J (SDBL (2013))**	6.6 J
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	**130 J (SDBL (2013))**	6.8 J	1.6 J	2.1 J
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	**11,000 (SDBL (2013))**	**1,400 (SDBL (2013))**	16 J	22 J
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.2 UJ	0.044 J	0.2 U	**3.2 (SDBL (2013))**
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**3,200 (NDC (2013),SDBL (2013))**	**600 (SDBL (2013))**	2.6 J	5.5 J
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	**1,800 (NPSIC (2013),SDBL (2013))**	430	160 J	69 J
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	**0.161 J (SDBL (2013))**	0.0548 J	0.074 U	0.076 U
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	**67 J (SDBL (2013))**	**33 J (SDBL (2013))**	12	5.9
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	**0.45 J (SDBL (2013))**	0.14 J	0.072 U	0.1 U
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	**2.6 (SDBL (2013))**	0.63	0.016 J	0.25 U
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.13 J	0.079 J	0.023 J	0.047 J
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	38	18	4.8 J	9.8 J
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	**490 J (SDBL (2013))**	**120 J (SDBL (2013))**	0.36 U	24 J
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	906,000	871,000	950,000	927,000

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-25 10.7 - 12.7 12/05/01	RFI-83/84-27 0.7 - 2.7 12/13/01	RFI-83/84-27 6.7 - 8.7 12/13/01	RFI-83/84-27 8.7 - 10.7 12/13/01
VOC											
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.04 U	0.037 U	0.037 U	0.037 U [0.037 U]
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.08 U	0.074 U	0.075 U	0.073 U [0.074 U]
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.17 U	0.16 U	0.16 U	0.16 U [0.16 U]
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.04 U	0.037 U	0.037 U	0.037 U [0.037 U]
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.04 U	0.037 U	0.037 U	0.037 U [0.037 U]
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.04 U	0.037 U	0.037 U	0.037 U [0.037 U]
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.17 U	0.16 U	0.16 U	0.16 U [0.16 U]
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.17 U	0.16 U	0.16 U	0.16 U [0.16 U]
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.17 U	0.16 U	0.16 U	0.16 U [0.16 U]
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.08 U	0.074 U	0.075 U	0.073 U [0.074 U]
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.04 U	0.037 U	0.037 UJ	0.037 U [0.037 UJ]
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.04 U	0.037 U	0.037 U	0.037 U [0.037 U]
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.08 U	0.074 U	0.075 U	0.073 U [0.074 U]
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.08 U	0.074 U	0.075 U	0.073 U [0.074 U]
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.28 UJ	0.26 U	0.27 U	0.26 U [0.26 U]
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.28 UJ	0.26 U	0.27 U	0.26 U [0.26 U]
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.28 U	0.26 U	0.27 UJ	0.26 U [0.26 UJ]
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.28 UJ	0.26 U	0.27 U	0.26 U [0.26 U]
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.04 U	0.037 U	0.037 U	0.037 U [0.037 U]
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.08 U	0.074 U	0.075 U	0.073 U [0.074 U]
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.08 U	0.074 U	0.075 U	0.073 U [0.074 U]
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.17 U	0.16 U	0.16 U	0.16 U [0.16 U]
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.17 U	0.16 U	0.16 U	0.16 U [0.16 U]
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.04 U	0.037 U	0.037 U	0.037 U [0.037 U]
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.04 U	0.037 U	0.037 U	0.037 U [0.037 U]
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.17 U	0.16 U	0.16 U	0.16 U [0.16 U]
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.04 U	0.037 U	0.037 U	0.037 U [0.037 U]
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.17 U	0.16 U	0.16 U	0.16 U [0.16 U]
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.04 U	0.037 U	0.037 U	0.037 U [0.037 U]
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.04 U	0.037 U	0.037 U	0.037 U [0.037 U]
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.17 U	0.16 U	0.049 J	0.16 U [0.16 U]
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.08 U	0.074 U	0.075 UJ	0.073 U [0.074 UJ]
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.08 U	0.074 U	0.075 U	0.073 U [0.074 U]
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.04 U	0.037 U	0.037 U	0.037 U [0.037 U]

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-25 10.7 - 12.7 12/05/01	RFI-83/84-27 0.7 - 2.7 12/13/01	RFI-83/84-27 6.7 - 8.7 12/13/01	RFI-83/84-27 8.7 - 10.7 12/13/01
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.17 U	0.16 U	0.16 U	0.16 U [0.16 U]
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.08 U	0.074 U	0.06 J	0.073 U [0.074 U]
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.17 U	0.09 J	0.19 J	0.16 U [0.16 UJ]
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.28 U	0.26 U	0.27 U	0.26 U [0.26 U]
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.17 U	0.16 U	0.11 J	0.16 U [0.035 J]
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.17 U	0.16 U	0.16 U	0.16 U [0.16 U]
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.04 U	0.037 U	0.036 J	0.037 U [0.037 U]
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.04 U	0.037 U	0.037 U	0.037 U [0.037 U]
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.04 U	0.037 U	0.037 U	0.037 U [0.037 U]
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.04 U	0.037 U	0.037 U	0.037 U [0.037 U]
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.04 U	0.037 U	0.037 U	0.037 U [0.037 U]
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.04 U	0.037 U	0.037 U	0.037 U [0.037 U]
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.052	0.037 U	0.037 U	0.037 U [0.037 U]
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.08 U	0.074 U	0.075 U	0.073 U [0.074 U]
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.04 U	0.037 U	0.037 U	0.037 U [0.037 U]
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.04 U	0.037 U	0.036 J	0.037 U [0.037 U]
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.78 U	0.7 U	0.71 U	0.72 U [0.72 U]
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.78 U	0.7 U	0.71 U	0.72 U [0.72 U]
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.78 U	0.7 U	0.71 U	0.72 U [0.72 U]
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.39 UJ	0.36 UJ	0.36 UJ	0.36 UJ [0.36 UJ]

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-25 10.7 - 12.7 12/05/01	RFI-83/84-27 0.7 - 2.7 12/13/01	RFI-83/84-27 6.7 - 8.7 12/13/01	RFI-83/84-27 8.7 - 10.7 12/13/01
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.78 U	0.7 U	0.71 U	0.72 U [0.72 U]
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.78 U	0.7 U	0.71 U	0.72 U [0.72 U]
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.78 U	0.7 U	0.71 U	0.72 U [0.72 U]
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.78 U	0.7 U	0.71 U	0.72 U [0.72 U]
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.78 U	0.7 U	0.71 U	0.72 U [0.72 U]
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.78 U	0.7 U	0.71 U	0.72 U [0.72 U]
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.78 U	0.7 U	0.71 U	0.72 U [0.72 U]
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.39	0.18 U	0.0411 J	0.18 U [0.18 U]
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.847 J	0.18 U	0.087 J	0.18 U [0.18 U]
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	1.24 J	0.0383 J	0.167 J	0.0662 J [0.0659 J]
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	1.09 J	0.0355 J	0.146 J	0.0627 J [0.0691 J]
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	1.14 J	0.18 U	0.142 J	0.0609 J [0.057 J]
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.569 J	0.18 U	0.0912 J	0.047 J [0.0399 J]
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.95	0.18 U	0.145 J	0.0652 J [0.0605 J]
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.038 U	0.034 U	0.035 U	0.035 U [0.035 U]
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.067 J [0.11 J]
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.0842 J	0.0628 J	0.063 J [0.18 U]
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.404 J	0.18 U	0.0498 J	0.18 U [0.18 U]
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	1.23 J	0.0498 J	0.184	0.0798 J [0.0801 J]
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.26 J	0.18 U	0.18 U	0.18 U [0.18 U]
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.238	0.18 U	0.0393 J	0.18 U [0.18 U]
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	3.14 J	0.0769 J	0.415	0.142 J [0.143 J]
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.473	0.18 U	0.18 U	0.18 U [0.18 U]
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.587 J	0.18 U	0.093 J	0.041 J [0.0399 J]
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.0552 J	0.047 J	0.0547 J	0.0474 J [0.0388 J]
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.078 U	0.07 U	0.071 U	0.072 U [0.072 U]
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.78 U	0.7 U	0.71 U	0.72 U [0.72 U]
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	3.05 J	0.0692 J	0.385	0.122 J [0.123 J]

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-25 10.7 - 12.7 12/05/01	RFI-83/84-27 0.7 - 2.7 12/13/01	RFI-83/84-27 6.7 - 8.7 12/13/01	RFI-83/84-27 8.7 - 10.7 12/13/01
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.18 U	0.18 U	0.18 U [0.18 U]
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	2.33 J	0.0682 J	0.358	0.124 J [0.129 J]
PCB											
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.037 U	0.037 U	0.037 U [0.037 U]
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.037 U	0.037 U	0.037 U [0.037 U]
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.037 U	0.037 U	0.037 U [0.037 U]
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.037 U	0.037 U	0.037 U [0.037 U]
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.037 U	0.037 U	0.037 U [0.037 U]
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.037 U	0.037 U	0.037 U [0.037 U]
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.037 U	0.037 U	0.037 U [0.037 U]
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.041 U	0.037 U	0.037 U	0.037 U [0.037 U]
Inorganic											
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	R	R	R	0.053 J [R]
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	2.2 J	2.5 J	1.8 J	2.4 J [2 J]
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	8.9	10	10	13 [14]
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.077 J	0.11 J	0.092 J	0.14 J [0.11 J]
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.066	0.031 J	0.031 J	0.043 J [0.032 J]
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	5.8 J	**23 J (SDBL (2013))**	18 J	**31 J (SDBL (2013)) [25 J (SDBL (2013))]**
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	1.5 J	1.5 J	1.5 J	1.9 J [1.5 J]
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	17 J	14 J	11 J	10 J [12 J]
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	**0.82 (SDBL (2013))**	0.051 J	0.054 J	0.14 J [0.066 J]
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	4.6 J	7 J	3.5 J	4.7 J [7.3 J]
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	57 J	130 J	120 J	140 J [120 J]
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.0203 J	0.072 U	0.073 U	0.0292 J [0.075 U]
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	4.9	13	14	13 [12]
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	0.1 U	0.18 J	0.1 U	0.19 J [0.089 J]
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.25 U	0.025 J	0.025 J	0.038 J [0.03 J]
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.04 J	0.023 J	0.019 J	0.034 J [0.025 J]
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	7 J	4.7	4.8	7.1 [7]
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	24 J	9.6 J	9.7 J	11 J [9.8 J]
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	863,000	957,000	949,000	935,000 [935,000]

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-28 0.7 - 2.7 12/13/01	RFI-83/84-28 2.7 - 4.7 12/13/01	RFI-83/84-29 1 - 3 01/17/02	RFI-83/84-29 9 - 11 01/17/02	RFI-83/84-30 0.7 - 2.7 09/04/02
VOC												
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.04 U	0.041 U	0.04 U	0.061 U	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.081 U	0.082 U	0.08 U	0.12 U	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.17 U	0.18 U	0.17 U	0.26 U	NA
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.04 U	0.041 U	0.04 U	0.061 U	NA
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.04 U	0.041 U	0.04 U	0.061 U	NA
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.04 U	0.041 U	0.04 U	0.061 U	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.17 U	0.18 U	0.17 U	0.26 U	NA
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.17 U	0.18 U	0.17 U	0.26 U	NA
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.17 U	0.18 U	0.17 U	0.26 U	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.081 U	0.082 U	0.08 U	0.12 U	NA
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.04 UJ	0.041 UJ	0.04 U	0.061 U	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.04 U	0.041 U	0.04 U	0.061 U	NA
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.081 U	0.082 U	0.08 U	0.12 U	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.081 U	0.082 U	0.08 U	0.12 U	NA
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.29 U	0.29 U	0.06 J	0.096 J	NA
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.29 U	0.29 U	0.29 U	0.44 U	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.29 UJ	0.29 UJ	0.29 U	0.44 U	NA
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.29 U	0.29 U	0.29 UJ	0.44 U	NA
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.04 U	0.041 U	0.04 U	0.061 U	NA
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.081 U	0.082 U	0.08 U	0.12 U	NA
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.081 U	0.082 U	0.08 U	0.12 U	NA
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.17 U	0.18 U	0.17 U	0.26 U	NA
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.17 U	0.18 U	0.17 U	0.26 U	NA
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.04 U	0.041 U	0.04 U	0.061 U	NA
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.04 U	0.041 U	0.04 U	0.061 U	NA
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.17 U	0.18 U	0.17 U	0.26 UJ	NA
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.04 U	0.041 U	0.04 U	0.061 U	NA
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.17 U	0.18 U	0.17 U	0.26 U	NA
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.04 U	0.041 U	0.04 U	0.061 U	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.04 U	0.041 U	0.04 U	0.061 U	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.17 U	0.18 U	0.11 J	0.26 U	NA
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.081 UJ	0.082 UJ	0.08 U	0.12 U	NA
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.081 U	0.082 U	0.08 U	0.12 U	NA
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.04 U	0.041 U	0.029 J	0.061 U	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-28 0.7 - 2.7 12/13/01	RFI-83/84-28 2.7 - 4.7 12/13/01	RFI-83/84-29 1 - 3 01/17/02	RFI-83/84-29 9 - 11 01/17/02	RFI-83/84-30 0.7 - 2.7 09/04/02
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.17 U	0.18 U	0.17 U	0.26 U	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.047 J	0.082 U	0.15	0.12 U	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.17 UJ	0.18 UJ	0.37 J	0.17 J	NA
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.29 U	0.29 U	0.29 U	0.44 U	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.11 J	0.18 U	0.44	0.26 U	NA
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.17 U	0.18 U	0.17 U	0.26 U	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.033 J	0.041 U	0.14 J	0.061 U	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.04 U	0.041 U	0.04 U	0.061 U	NA
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.04 U	0.041 U	0.04 U	0.061 U	NA
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.04 U	0.041 U	0.13	0.061 U	NA
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.04 U	0.041 U	0.04 U	0.061 U	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.04 U	0.041 U	0.04 U	0.061 U	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.04 U	0.041 U	0.04 U	0.061 U	NA
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.081 U	0.082 U	0.08 U	0.12 U	NA
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.04 U	0.041 U	0.04 U	0.061 U	NA
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.033 J	0.041 U	0.14 J	0.061 U	NA
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.98 U	0.2 U	0.19 U	0.3 U	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.98 U	0.2 U	0.19 U	0.3 U	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.98 U	0.2 U	0.19 U	0.3 U	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.98 U	0.2 U	0.19 U	0.3 U	NA
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.98 U	0.2 U	0.19 U	0.3 U	NA
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.98 U	0.2 U	0.19 U	0.3 U	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	3.9 U	0.77 U	0.75 U	1.2 U	NA
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	3.9 U	0.77 U	0.75 U	1.2 U	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.98 U	0.2 U	0.19 U	0.3 U	NA
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.98 U	0.2 U	0.19 U	0.3 U	NA
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.98 U	0.2 U	0.19 U	0.3 U	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.98 U	0.2 U	0.19 U	0.3 U	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.98 U	0.2 U	0.19 U	0.3 U	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	3.9 U	0.77 U	0.75 U	1.2 U	NA
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.98 U	0.2 U	0.19 U	0.3 U	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	2 UJ	0.39 UJ	0.38 UJ	0.59 UJ	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-28 0.7 - 2.7 12/13/01	RFI-83/84-28 2.7 - 4.7 12/13/01	RFI-83/84-29 1 - 3 01/17/02	RFI-83/84-29 9 - 11 01/17/02	RFI-83/84-30 0.7 - 2.7 09/04/02
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	3.9 U	0.77 UJ	0.75 UJ	1.2 U	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	3.9 U	0.77 U	0.75 U	1.2 U	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	3.9 U	0.77 U	0.75 U	1.2 U	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.98 U	0.2 U	0.19 U	0.3 U	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.98 U	0.2 U	0.19 U	0.3 U	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	3.9 U	0.77 U	0.75 U	1.2 U	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	3.9 U	0.77 U	0.75 U	1.2 U	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	3.9 U	0.77 U	0.75 U	1.2 U	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	3.9 U	0.77 U	0.75 U	1.2 U	NA
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	1.76	0.2 U	0.19 U	0.3 U	NA
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.98 U	0.2 U	0.19 U	0.3 U	NA
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.98 U	0.2 U	0.19 U	0.3 U	NA
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	2.54	0.2 U	0.19 U	0.3 U	NA
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.98 U	0.2 U	0.19 U	0.3 U	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.98 U	0.2 U	0.19 UJ	0.3 UJ	NA
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	5.35 D	0.2 UJ	0.0524 J	0.3 U	NA
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	5.58	0.2 UJ	0.0632 J	0.3 U	NA
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	6.23 D	0.2 UJ	0.058 J	0.3 U	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	2.92 D	0.2 UJ	0.0434 J	0.3 U	NA
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	5.1 D	0.2 UJ	0.0513 J	0.3 U	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.98 U	0.2 U	0.19 U	0.3 U	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.19 U	0.038 U	0.037 U	0.058 U	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.672 J	0.2 UJ	0.19 UJ	0.3 U	NA
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.391 J	0.2 UJ	0.0494 J	0.3 U	NA
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.98 U	0.2 U	0.19 U	0.3 U	NA
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	1.58	0.2 U	0.19 U	0.3 U	NA
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	6.19 D	0.2 UJ	0.064 J	0.3 U	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.98 U	0.2 UJ	0.19 UJ	0.3 U	NA
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.741 J	0.2 U	0.19 U	0.3 U	NA
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.98 U	0.2 U	0.19 U	0.3 U	NA
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.98 U	0.2 U	0.19 U	0.3 U	NA
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	3.43	0.2 U	0.19 U	0.3 U	NA
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.98 U	0.2 UJ	0.19 UJ	0.3 U	NA
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	12 D	0.2 U	0.0707 J	0.3 U	NA
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	1.32	0.2 U	0.19 U	0.3 U	NA
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.98 U	0.2 U	0.19 U	0.3 U	NA
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.98 U	0.2 U	0.19 U	0.3 U	NA
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.98 U	0.2 U	0.19 U	0.3 U	NA
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.98 U	0.2 U	0.19 U	0.3 U	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	2.68 D	0.2 UJ	0.19 UJ	0.3 U	NA
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.98 U	0.2 U	0.19 U	0.3 U	NA
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.98 U	0.2 U	0.19 U	0.3 U	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.986	0.2 U	0.0393 J	0.3 U	NA
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.39 U	0.077 U	0.075 U	0.12 U	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.98 U	0.2 U	0.19 U	0.3 U	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.98 U	0.2 U	0.19 U	0.3 U	NA
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	3.9 U	0.77 U	0.75 U	1.2 U	NA
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	9.42 D	0.2 U	0.114 J	0.3 U	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-28 0.7 - 2.7 12/13/01	RFI-83/84-28 2.7 - 4.7 12/13/01	RFI-83/84-29 1 - 3 01/17/02	RFI-83/84-29 9 - 11 01/17/02	RFI-83/84-30 0.7 - 2.7 09/04/02
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.98 U	0.2 U	0.19 U	0.3 U	NA
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	13.5 D	0.2 UJ	0.101 J	0.3 U	NA
PCB												
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.04 U	0.04 U	0.039 U	0.061 U	NA
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.04 U	0.04 U	0.039 U	0.061 U	NA
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.04 U	0.04 U	0.039 U	0.061 U	NA
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.04 U	0.04 U	0.039 U	0.061 U	NA
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.04 U	0.04 U	0.039 U	0.061 U	NA
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.049	0.04 U	0.039 U	0.061 U	NA
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.027 J	0.04 U	0.039 U	0.061 U	NA
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.076 J	0.04 U	0.039 U	0.061 U	NA
Inorganic												
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	R	R	R	R	0.17 J
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	**6.1 J (SDBL (2013))**	4.1 J	**11 (SDBL (2013))**	1.5	2.4
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	**78 (SDBL (2013))**	41	**85 J (SDBL (2013))**	51 J	17
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.32 J	0.33 J	1.4	0.31	0.17
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	1 J	0.13 J	0.29	0.8	0.16
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	**47 J (SDBL (2013))**	11 J	**22 (SDBL (2013))**	12	**24 J (SDBL (2013))**
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	4.8 J	5.4 J	**7.4 (SDBL (2013))**	1.2	1.9
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	**72 J (SDBL (2013))**	8 J	**66 (SDBL (2013))**	28	**61 (SDBL (2013))**
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.39	0.2 U	0.2 U	0.3 U	NA
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**66 J (SDBL (2013))**	6.9 J	**95 (SDBL (2013))**	6.4	**42 (SDBL (2013))**
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	410 J	410 J	360 J	150 J	200 J
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.0339 J	0.0218 J	0.0384 J	0.0808 J	0.0578 J
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	**27 (SDBL (2013))**	11	**120 (SDBL (2013))**	11	13
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	**0.48 J (SDBL (2013))**	0.3 J	**0.63 (SDBL (2013))**	**3.6 (SDBL (2013))**	0.15 J
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.25 J	0.034 J	0.11 J	0.12 J	0.023 J
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.19 J	0.085 J	0.16	0.16 J	0.047 J
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	9.1	17	16	7.7	6.8
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	**150 J (SDBL (2013))**	31 J	**60 (SDBL (2013))**	24	16 J
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	865,000	868,000	890,000	572,000	944,000

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-30 8.7 - 10.7 09/04/02	RFI-83/84-31 1 - 3 09/04/02	RFI-83/84-31 7 - 9 09/04/02	RFI-83/84-32 0.7 - 2.7 09/04/02
VOC											
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	NA	NA	NA	NA
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	NA	NA	NA	NA
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-30 8.7 - 10.7 09/04/02	RFI-83/84-31 1 - 3 09/04/02	RFI-83/84-31 7 - 9 09/04/02	RFI-83/84-32 0.7 - 2.7 09/04/02
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-30 8.7 - 10.7 09/04/02	RFI-83/84-31 1 - 3 09/04/02	RFI-83/84-31 7 - 9 09/04/02	RFI-83/84-32 0.7 - 2.7 09/04/02
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-30 8.7 - 10.7 09/04/02	RFI-83/84-31 1 - 3 09/04/02	RFI-83/84-31 7 - 9 09/04/02	RFI-83/84-32 0.7 - 2.7 09/04/02
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA
PCB											
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	NA	NA	NA	NA
Inorganic											
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.033 J	0.033 J	0.15 J	0.18 J
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	**6.2 (SDBL (2013))**	3	2.2	5
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	**90 (SDBL (2013))**	9.8	31	71
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	1.1	0.11	0.19	0.22
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.19	0.068	0.15	**22 (SDBL (2013))**
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	**24 J (SDBL (2013))**	5.6 J	**24 J (SDBL (2013))**	**27 J (SDBL (2013))**
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	**9 (SDBL (2013))**	2.2	2.5	2.4
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	**34 (SDBL (2013))**	4.8	18	**680 (SDBL (2013))**
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**73 (SDBL (2013))**	3.6	**37 (SDBL (2013))**	**110 (SDBL (2013))**
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	340 J	140 J	200 J	240 J
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.0296 J	0.066 U	**1.13 D (SDBL (2013))**	**0.651 D (SDBL (2013))**
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	**30 (SDBL (2013))**	6.9	14	9
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	0.067 UJ	0.13 J	0.096 J	0.045 J
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.09 J	0.044 J	0.044 J	0.13 J
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.2	0.055 J	0.17	0.048 J
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	29	9.4	10	9.2
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	43 J	19 J	23 J	**77 J (SDBL (2013))**
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	819,000	981,000	941,000	920,000

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-33 1.2 - 3.2 09/04/02	RFI-83/84-33 7.2 - 9.2 09/04/02	RFI-83/84-38 5 - 7 03/12/03
VOC										
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	NA	NA	NA
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	NA	NA	NA
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	NA	NA	NA
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-33 1.2 - 3.2 09/04/02	RFI-83/84-33 7.2 - 9.2 09/04/02	RFI-83/84-38 5 - 7 03/12/03
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	NA	NA	NA
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA
SVOC										
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-33 1.2 - 3.2 09/04/02	RFI-83/84-33 7.2 - 9.2 09/04/02	RFI-83/84-38 5 - 7 03/12/03
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	NA	NA	NA
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-33 1.2 - 3.2 09/04/02	RFI-83/84-33 7.2 - 9.2 09/04/02	RFI-83/84-38 5 - 7 03/12/03
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA
PCB										
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	NA	NA	NA
Inorganic										
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.029 J [0.032 J]	R	NA
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	4.7 [4.2]	**6.4 (SDBL (2013))**	NA
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	44 [46]	58	NA
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.59 [0.54]	0.66	NA
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.84 [1]	0.42	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	14 J [9.5 J]	17 J	NA
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	5.5 [4.2]	6.8	NA
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	**61 (SDBL (2013)) [48 (SDBL (2013))]**	**35 (SDBL (2013))**	NA
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**51 (SDBL (2013)) [70 (SDBL (2013))]**	**53 (SDBL (2013))**	12 J
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	180 J [360 J]	290 J	NA
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.119 [0.0446 J]	0.0166 J	NA
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	16 [14]	19	NA
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	0.066 UJ [0.13 J]	0.26 J	NA
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.077 J [0.048 J]	0.091 J	NA
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.2 [0.2]	0.26	NA
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	21 [17]	27	NA
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	**170 J (SDBL (2013)) [170 J (SDBL (2013))]**	**110 J (SDBL (2013))**	NA
Miscellaneous										
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	916,000 [907,000]	814,000	935,000

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-39 0.9 - 2.9 03/07/03	RFI-83/84-39 1.1 - 3.1 03/19/03	RFI-83/84-39 5.1 - 7.1 03/19/03	RFI-83/84-40 1 - 2.5 03/06/03
VOC											
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.037 U	0.036 U	0.036 U	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.074 U	0.072 UJ	0.071 UJ	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.16 U	0.15 U	0.15 U	NA
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.037 UJ	0.036 U	0.036 U	NA
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.037 U	0.036 U	0.036 U	NA
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.037 U	0.036 U	0.036 U	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.16 U	0.15 U	0.15 U	NA
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.16 UJ	0.15 U	0.15 U	NA
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.16 UJ	0.15 U	0.15 U	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.074 U	0.072 U	0.071 U	NA
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.037 U	0.036 U	0.036 U	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.037 UJ	0.036 U	0.036 U	NA
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.074 U	0.072 U	0.071 U	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.074 U	0.072 U	0.071 U	NA
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.063 J	0.31 UJ	0.31 UJ	NA
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.074 U	0.072 UJ	0.071 UJ	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	1.6 U	1.5 UJ	1.5 UJ	NA
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.33 J	0.044 J	0.31 UJ	NA
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.037 U	0.036 U	0.036 U	NA
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.074 U	0.072 U	0.071 U	NA
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.074 U	0.072 U	0.071 U	NA
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.16 UJ	0.15 U	0.15 U	NA
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.16 U	0.15 UJ	0.15 UJ	NA
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.037 U	0.036 U	0.036 U	NA
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.037 U	0.036 U	0.036 U	NA
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.16 UJ	0.15 U	0.15 U	NA
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.037 U	0.036 U	0.036 U	NA
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.16 U	0.15 U	0.15 U	NA
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.037 UJ	0.036 U	0.036 U	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.037 U	0.036 U	0.036 U	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.16 U	0.15 U	0.15 U	NA
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.074 U	0.072 U	0.071 U	NA
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.074 U	0.072 U	0.071 U	NA
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.037 U	0.036 U	0.036 U	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-39 0.9 - 2.9 03/07/03	RFI-83/84-39 1.1 - 3.1 03/19/03	RFI-83/84-39 5.1 - 7.1 03/19/03	RFI-83/84-40 1 - 2.5 03/06/03
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.16 U	0.15 U	0.15 U	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.051 J	0.072 U	0.071 U	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.53 J	0.15 UJ	0.15 UJ	NA
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.16 UJ	0.15 UJ	0.15 UJ	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.087 J	0.15 UJ	0.15 UJ	NA
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.028 J	0.034 J	0.029 J	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.03 J	0.036 U	0.036 U	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.037 U	0.036 U	0.036 U	NA
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.037 UJ	0.036 U	0.036 U	NA
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.033 J	0.072 U	0.071 U	NA
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.037 U	0.036 U	0.036 U	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.037 U	0.036 U	0.036 U	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.037 U	0.036 U	0.036 U	NA
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.074 U	0.072 U	0.071 U	NA
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.074 U	0.072 U	0.071 U	NA
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.03 J	0.036 U	0.036 U	NA
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	4.6 U	0.18 U	0.18 U	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	4.6 U	0.18 U	0.18 U	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	4.6 U	0.18 U	0.18 U	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	4.6 U	0.18 U	0.18 U	NA
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	4.6 U	0.18 U	0.18 U	NA
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	4.6 U	0.18 U	0.18 U	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	18 U	0.69 U	0.71 U	NA
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	18 U	0.69 U	0.71 U	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	4.6 U	0.18 U	0.18 U	NA
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	4.6 U	0.18 U	0.18 U	NA
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	4.6 U	0.18 U	0.18 U	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	4.6 U	0.18 U	0.18 U	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	4.6 U	0.18 U	0.18 U	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	18 U	0.69 U	0.71 U	NA
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	4.6 U	0.18 U	0.18 U	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	9.3 UJ	0.35 UJ	0.36 UJ	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-39 0.9 - 2.9 03/07/03	RFI-83/84-39 1.1 - 3.1 03/19/03	RFI-83/84-39 5.1 - 7.1 03/19/03	RFI-83/84-40 1 - 2.5 03/06/03
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	18 U	0.69 U	0.71 U	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	18 U	0.69 U	0.71 U	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	18 U	0.69 U	0.71 U	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	4.6 U	0.18 U	0.18 U	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	4.6 U	0.18 U	0.18 U	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	18 U	0.69 U	0.71 U	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	18 U	0.69 U	0.71 U	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	18 U	0.69 U	0.71 U	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	18 U	0.69 U	0.71 U	NA
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	4.6 U	0.18 U	0.18 U	NA
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	4.6 U	0.18 U	0.18 U	NA
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	4.6 U	0.18 U	0.18 U	NA
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	4.6 U	0.18 U	0.18 U	NA
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	4.6 U	0.18 U	0.18 U	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	4.6 UJ	R	R	NA
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	4.6 U	0.18 U	0.18 U	NA
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	4.6 UJ	0.18 U	0.18 U	NA
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	4.6 U	0.18 U	0.18 U	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	4.6 UJ	0.18 U	0.18 U	NA
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	4.6 UJ	0.18 U	0.18 U	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	4.6 U	0.18 U	0.18 U	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.9 U	0.034 U	0.035 U	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	4.6 U	0.18 U	0.18 U	NA
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	4.6 U	0.18 U	0.18 U	NA
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	4.6 U	0.18 U	0.18 U	NA
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	4.6 U	0.18 U	0.18 U	NA
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	4.6 U	0.18 U	0.18 U	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	4.6 UJ	0.18 UJ	0.18 UJ	NA
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	4.6 U	0.18 U	0.18 U	NA
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	4.6 U	0.18 U	0.18 U	NA
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	4.6 U	0.18 U	0.18 U	NA
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	4.6 U	0.18 U	0.18 U	NA
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	4.6 U	0.18 U	0.18 U	NA
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	4.6 U	0.18 U	0.18 U	NA
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	4.6 U	0.18 U	0.18 U	NA
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	4.6 U	0.18 U	0.18 U	NA
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	4.6 U	0.18 U	0.18 U	NA
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	4.6 U	0.18 U	0.18 U	NA
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	4.6 U	0.18 U	0.18 U	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	4.6 U	0.18 UJ	0.18 UJ	NA
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	4.6 U	0.18 U	0.18 U	NA
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	4.6 U	0.18 U	0.18 U	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	4.6 U	0.18 U	0.18 U	NA
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	1.8 U	0.069 U	0.071 U	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	4.6 U	0.18 U	0.18 U	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	4.6 U	0.18 U	0.18 U	NA
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	18 U	0.69 U	0.71 U	NA
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	4.6 U	0.18 U	0.18 U	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-39 0.9 - 2.9 03/07/03	RFI-83/84-39 1.1 - 3.1 03/19/03	RFI-83/84-39 5.1 - 7.1 03/19/03	RFI-83/84-40 1 - 2.5 03/06/03
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	4.6 U	0.18 U	0.18 U	NA
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	4.6 U	0.18 U	0.18 U	NA
PCB											
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.036 U	0.037 U	NA
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.036 U	0.037 U	NA
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.036 U	0.037 U	NA
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.036 U	0.037 U	NA
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.036 U	0.037 U	NA
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.036 U	0.037 U	NA
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.036 U	0.037 U	NA
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.038 U	0.036 U	0.037 U	NA
Inorganic											
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	1.2	0.059 J	0.074 J	NA
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	**13 (SDBL (2013))**	0.99	0.98	NA
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	**290 (SDBL (2013))**	9.7	9.5	NA
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.12	0.12	0.12	NA
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.68	0.05 U	0.048 U	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	**2,400 (SDBL (2013))**	3.4	2.9	NA
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	**210 (SDBL (2013))**	0.67	0.62	NA
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	**190 J (SDBL (2013))**	2.7	2.2	NA
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.2 U	0.2 U	0.2 U	NA
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**96 (SDBL (2013))**	3 J	2.3 J	**3,000 (NDC (2013),SDBL (2013))**
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	**1,800 (NPSIC (2013),SDBL (2013))**	53 J	44 J	NA
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.048 J	0.061 U	0.073 U	NA
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	**88 (SDBL (2013))**	2.2	2	NA
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	0.061 U	0.058 U	0.072	NA
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.25 J	0.034 J	0.03 J	NA
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.066 J	0.024 J	0.024 J	NA
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	390	5	5	NA
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	**52 J (SDBL (2013))**	13	11	NA
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	917,000	966,000	944,000	829,000

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-49 0.9 - 2.9 04/09/03	RFI-83/84-49 4.5 - 6.5 04/09/03	RFI-83/84-49 8.5 - 10.5 04/09/03
VOC										
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.038 U	0.04 U	0.041 U [0.04 U]
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.077 U	0.08 U	0.083 U [0.079 U]
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.16 U	0.17 U	0.18 U [0.17 U]
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.038 U	0.04 U	0.041 U [0.04 U]
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.14	0.04 U	0.041 U [0.04 U]
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.038 U	0.04 U	0.041 U [0.04 U]
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.16 U	0.17 U	0.18 U [0.17 U]
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.16 U	0.17 U	0.18 U [0.17 U]
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.16 U	0.17 U	0.18 U [0.17 U]
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.077 U	0.08 U	0.083 U [0.079 U]
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.038 U	0.04 U	0.041 U [0.04 U]
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.038 U	0.04 U	0.041 U [0.04 U]
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.077 U	0.08 U	0.083 U [0.079 U]
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.077 U	0.08 U	0.083 U [0.079 U]
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.33 UJ	0.34 UJ	0.36 UJ [0.34 UJ]
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.077 U	0.08 U	0.083 U [0.079 U]
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	1.6 U	1.7 U	1.8 U [1.7 U]
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.12 J	0.34 U	0.36 U [0.34 U]
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.038 U	0.04 U	0.041 U [0.04 U]
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.077 U	0.08 U	0.083 U [0.079 U]
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.077 U	0.08 U	0.083 U [0.079 U]
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.16 U	0.17 U	0.18 U [0.17 U]
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.16 U	0.17 U	0.18 U [0.17 U]
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.038 U	0.04 U	0.041 U [0.04 U]
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.038 U	0.04 U	0.041 U [0.04 U]
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.16 U	0.17 U	0.18 U [0.17 U]
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.038 U	0.04 U	0.041 U [0.04 U]
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.16 U	0.17 U	0.18 U [0.17 U]
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.038 U	0.04 U	0.041 U [0.04 U]
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.038 U	0.04 U	0.041 U [0.04 U]
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.16 U	0.17 U	0.18 U [0.17 U]
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.077 U	0.08 U	0.083 U [0.079 U]
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.077 U	0.08 U	0.083 U [0.079 U]
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.038 U	0.04 U	0.041 U [0.04 U]

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-49 0.9 - 2.9 04/09/03	RFI-83/84-49 4.5 - 6.5 04/09/03	RFI-83/84-49 8.5 - 10.5 04/09/03
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.035 J	0.16 J	0.18 U [0.17 U]
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.047 J	0.051 J	0.032 J [0.079 U]
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.046 J	0.17 U	0.18 U [0.17 U]
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.16 U	0.17 U	0.18 U [0.17 U]
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.16 U	0.26	0.069 J [0.04 J]
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.16 U	0.17 U	0.18 U [0.17 U]
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.032 J	0.037 J	0.041 U [0.04 U]
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.038 U	0.04 U	0.041 U [0.04 U]
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.038 U	0.04 U	0.041 U [0.04 U]
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.077 U	0.08 U	0.083 U [0.079 U]
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.038 U	0.04 U	0.041 U [0.04 U]
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.038 U	0.04 U	0.041 U [0.04 U]
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.038 U	0.04 U	0.041 U [0.04 U]
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.077 U	0.08 U	0.083 U [0.079 U]
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.077 U	0.08 U	0.083 U [0.079 U]
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.032 J	0.037 J	0.041 U [0.04 U]
SVOC										
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	4.7 U	1.9 U	0.21 U [1.9 U]
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	4.7 U	1.9 U	0.21 U [1.9 U]
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	18 U	7.6 U	0.81 U [7.6 U]
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	18 U	7.6 U	0.81 U [7.6 U]
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	4.7 U	1.9 U	0.21 U [1.9 U]
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	2.48 J	1.9 U	0.075 J [1.9 U]
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	4.7 U	1.9 U	0.21 U [1.9 U]
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	18 U	7.6 U	0.81 U [7.6 U]
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	9.4 UJ	3.9 UJ	0.41 UJ [3.9 UJ]

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-49 0.9 - 2.9 04/09/03	RFI-83/84-49 4.5 - 6.5 04/09/03	RFI-83/84-49 8.5 - 10.5 04/09/03
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	18 U	7.6 U	0.81 U [7.6 U]
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	18 U	7.6 U	0.81 U [7.6 U]
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	18 U	7.6 U	0.81 U [7.6 U]
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	4.7 U	1.9 U	0.21 U [1.9 U]
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	18 U	7.6 U	0.81 U [7.6 U]
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	18 U	7.6 U	0.81 U [7.6 U]
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	18 U	7.6 U	0.81 U [7.6 U]
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	18 U	7.6 U	0.81 U [7.6 U]
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	1.93 J	1.9 U	0.21 U [1.9 U]
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	4.7 UJ	1.9 UJ	0.21 UJ [1.9 UJ]
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	3.25 J	1.9 U	0.0766 J [1.9 U]
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	3.6 J	1.9 UJ	0.21 UJ [1.9 UJ]
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	3.75 J	1.9 UJ	0.21 UJ [1.9 UJ]
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	4.7 UJ	1.9 UJ	0.21 UJ [1.9 UJ]
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	4.4 J	1.9 UJ	0.21 UJ [1.9 UJ]
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	4.7 U	1.9 U	0.21 U [1.9 U]
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.91 U	0.37 U	0.04 U [0.37 U]
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	1.65 J	1.9 UJ	0.21 UJ [1.9 UJ]
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	3.89 J	0.815 J	0.189 J [1.9 U]
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	4.7 UJ	1.9 UJ	0.21 UJ [1.9 UJ]
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	4.7 UJ	1.9 U	0.21 U [1.9 U]
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	4.7 U	1.9 UJ	0.21 UJ [1.9 UJ]
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	8.28	1.9 U	0.0891 J [1.9 U]
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	2.27 J	1.9 U	0.21 U [1.9 U]
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	4.7 UJ	1.9 UJ	0.21 UJ [1.9 UJ]
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	4.58 J	1.9 U	0.21 U [1.9 U]
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	1.8 U	0.76 U	0.081 U [0.76 U]
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	18 U	7.6 U	0.81 U [7.6 U]
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	9.67	1.47 J	0.266 [1.9 U]

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-49 0.9 - 2.9 04/09/03	RFI-83/84-49 4.5 - 6.5 04/09/03	RFI-83/84-49 8.5 - 10.5 04/09/03
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	4.7 U	1.9 U	0.21 U [1.9 U]
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	8.5	1.35 J	0.213 [1.9 U]
PCB										
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.04 U	0.042 U [0.04 U]
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.04 U	0.042 U [0.04 U]
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.04 U	0.042 U [0.04 U]
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.04 U	0.1 [0.19]
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.12	0.04 U	0.042 U [0.04 U]
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.22	0.04 U	0.042 U [0.06]
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.039 U	0.04 U	0.042 U [0.04 U]
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.34	0.04 U	0.1 [0.25]
Inorganic										
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.27	1.9	0.0095 J [1.4]
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	3.3	**35 (SDBL (2013))**	**2.9 [15 (SDBL (2013))]**
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	47 J	68 J	63 J [52 J]
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.22	0.23	0.42 [0.19]
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.38	**24 (SDBL (2013))**	**0.16 U [8.1 (SDBL (2013))]**
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	**26 (SDBL (2013))**	**20 (SDBL (2013))**	**22 (SDBL (2013)) [21 (SDBL (2013))]**
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	2.7	**7.4 (SDBL (2013))**	**4.5 [7.2 (SDBL (2013))]**
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	**160 (SDBL (2013))**	**13,000 (SDBL (2013))**	**36 (SDBL (2013)) [3,900 (SDBL (2013))]**
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.2 U	0.3 J	0.2 U [0.2 U]
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**65 (SDBL (2013))**	**1,200 (NDC (2013),SDBL (2013))**	**13 [590 (SDBL (2013))]**
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	290	**460 (SDBL (2013))**	82 [370]
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.0408 J	0.0247 J	0.0461 J [0.017 J]
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	18	**69 (SDBL (2013))**	**15 [130 (SDBL (2013))]**
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	0.14	0.25 J	**0.19 [0.42 J (SDBL (2013))]**
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.12 J	**7.7 (SDBL (2013))**	**0.091 J [2.8 (SDBL (2013))]**
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.05 J	0.082 J	0.18 [0.1 J]
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	10	18	22 [23]
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	**71 (SDBL (2013))**	**620 (SDBL (2013))**	**52 (SDBL (2013)) [740 (SDBL (2013))]**
Miscellaneous										
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	908,000	883,000	826,000 [881,000]

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-52 0.9 - 2.9 04/11/03	RFI-83/84-52 2.9 - 4.9 04/11/03	RFI-83/84-52 6.9 - 8.9 04/11/03	RFI-83/84-53 0.9 - 2.9 04/11/03
VOC											
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.038 U	0.038 U [0.038 U]	0.044 U	0.037 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.075 U	0.077 U [0.075 U]	0.088 U	0.074 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.16 U	0.16 U [0.16 U]	0.19 U	0.16 U
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.038 U	0.038 U [0.038 U]	0.044 U	0.037 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.038 U	0.038 U [0.038 U]	0.044 U	0.037 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.038 U	0.038 U [0.038 U]	0.044 U	0.037 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.16 U	0.16 U [0.16 U]	0.19 U	0.16 U
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.16 U	0.16 U [0.16 U]	0.19 U	0.16 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.16 U	0.16 U [0.16 U]	0.19 U	0.16 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.075 U	0.077 U [0.075 U]	0.088 U	0.074 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.038 U	0.038 U [0.038 U]	0.044 U	0.037 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.038 U	0.038 U [0.038 U]	0.044 U	0.037 U
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.075 U	0.077 U [0.075 U]	0.088 U	0.074 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.075 U	0.077 U [0.075 U]	0.088 U	0.074 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.32 U	0.33 U [0.32 U]	0.38 U	0.32 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.075 U	0.077 U [0.075 U]	0.088 U	0.074 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	1.6 U	1.6 U [1.6 U]	1.9 U	1.6 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.32 U	0.042 J [0.098 J]	0.38 U	0.088 J
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.038 U	0.038 U [0.038 U]	0.044 U	0.037 U
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.075 U	0.077 U [0.075 U]	0.088 U	0.074 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.075 U	0.077 U [0.075 U]	0.088 U	0.074 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.16 UJ	0.16 UJ [0.16 UJ]	0.19 UJ	0.16 UJ
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.16 U	0.16 U [0.16 U]	0.19 U	0.16 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.038 U	0.038 U [0.038 U]	0.044 U	0.037 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.038 U	0.038 U [0.038 U]	0.044 U	0.037 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.16 U	0.16 U [0.16 U]	0.19 U	0.16 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.038 U	0.038 U [0.038 U]	0.044 U	0.037 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.16 U	0.16 U [0.16 U]	0.19 U	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.038 U	0.038 U [0.038 U]	0.044 U	0.037 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.038 U	0.038 U [0.038 U]	0.044 U	0.037 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.16 U	0.16 U [0.16 U]	0.19 U	0.16 U
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.075 U	0.077 U [0.075 U]	0.088 U	0.074 U
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.075 U	0.077 U [0.075 U]	0.088 U	0.074 U
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.038 U	0.038 U [0.038 U]	0.044 U	0.037 U

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-52 0.9 - 2.9 04/11/03	RFI-83/84-52 2.9 - 4.9 04/11/03	RFI-83/84-52 6.9 - 8.9 04/11/03	RFI-83/84-53 0.9 - 2.9 04/11/03
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.16 U	0.16 U [0.16 U]	0.19 U	0.044 J
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.075 U	0.077 U [0.075 U]	0.088 U	0.074 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.16 UJ	0.046 J [0.053 J]	0.19 UJ	0.053 J
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.16 U	0.16 U [0.16 U]	0.19 U	0.16 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.16 U	0.16 U [0.028 J]	0.19 U	0.16 U
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.16 U	0.03 J [0.16 U]	0.19 U	0.16 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.038 U	0.038 U [0.038 U]	0.044 U	0.037 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.038 U	0.038 U [0.038 U]	0.044 U	0.037 U
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.038 U	0.038 U [0.038 U]	0.044 U	0.037 U
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.075 U	0.077 U [0.075 U]	0.088 U	0.1
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.038 U	0.038 U [0.038 U]	0.044 U	0.037 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.038 U	0.038 U [0.038 U]	0.044 U	0.037 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.038 U	0.038 U [0.038 U]	0.044 U	0.037 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.075 U	0.077 U [0.075 U]	0.088 U	0.074 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.075 U	0.077 U [0.075 U]	0.088 U	0.074 U
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.038 U	0.038 U [0.038 U]	0.044 U	0.037 U
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	1.9 U	2.9 U [0.56 U]	0.0945 J	3.7 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	7.3 U	11 U [2.2 U]	0.86 U	15 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	7.3 U	11 U [2.2 U]	0.86 U	15 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	1.13 J	2.44 J [2.42]	0.413	3.7 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	7.3 U	11 U [2.2 U]	0.86 U	15 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	3.7 UJ	5.7 UJ [1.1 UJ]	0.44 UJ	7.4 UJ

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-52 0.9 - 2.9 04/11/03	RFI-83/84-52 2.9 - 4.9 04/11/03	RFI-83/84-52 6.9 - 8.9 04/11/03	RFI-83/84-53 0.9 - 2.9 04/11/03
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	7.3 UJ	11 U [2.2 U]	0.86 U	15 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	7.3 U	11 U [2.2 U]	0.86 U	15 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	7.3 U	11 U [2.2 U]	0.86 U	15 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	7.3 UJ	11 UJ [2.2 UJ]	0.86 UJ	15 UJ
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	7.3 U	11 U [2.2 U]	0.86 U	15 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	7.3 U	11 U [2.2 U]	0.86 U	15 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	7.3 U	11 U [2.2 U]	0.86 U	15 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	1.9 U	2.9 U [0.355 J]	0.125 J	3.7 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	1.9 U	2.9 U [0.378 J]	0.141 J	1.29 J
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	1.9 UJ	2.9 UJ [0.56 UJ]	0.22 UJ	3.7 UJ
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	1.9 UJ	2.9 U [0.45 J]	0.192 J	2.21 J
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	1.9 UJ	2.9 U [0.56 U]	0.22 U	1.63 J
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	1.9 UJ	2.9 U [0.56 U]	0.22 U	2.42 J
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	1.9 UJ	2.9 U [0.56 UJ]	0.22 U	3.7 U
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	1.9 UJ	2.9 U [0.56 U]	0.22 U	1.6 J
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.36 U	0.56 U [0.11 U]	0.043 U	0.71 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	1.9 UJ	2.9 U [0.597]	0.22 U	3.7 U
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	1.9 UJ	2.9 U [0.56 U]	0.22 U	3.7 U
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	1.9 U	2.9 U [0.986]	0.589	2.58 J
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	1.9 UJ	2.9 UJ [0.56 UJ]	0.22 UJ	3.7 UJ
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	1.9 U	2.9 U [0.56 U]	0.113 J	3.7 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	1.9 UJ	2.9 U [0.56 UJ]	0.22 U	3.7 U
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	1.9 U	2.9 U [0.645]	0.277	7.41
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	1.9 U	2.9 U [0.85]	0.254	1.18 J
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	1.9 UJ	2.9 UJ [0.56 UJ]	0.22 UJ	3.7 UJ
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	1.9 U	2.9 U [0.626]	0.148 J	3.7 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.73 U	1.1 U [0.22 U]	0.086 U	1.5 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	7.3 U	11 U [2.2 U]	0.86 U	15 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	1.42 J	2.65 J [2.59]	0.971	8.73

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-52 0.9 - 2.9 04/11/03	RFI-83/84-52 2.9 - 4.9 04/11/03	RFI-83/84-52 6.9 - 8.9 04/11/03	RFI-83/84-53 0.9 - 2.9 04/11/03
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	1.9 U	2.9 U [0.56 U]	0.22 U	3.7 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	1.07 J	1.75 J [2.54]	1.14	8.4
PCB											
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.039 U [0.039 U]	0.045 U	0.038 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.039 U [0.039 U]	0.045 U	0.038 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.039 U [0.039 U]	0.045 U	0.038 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.054	0.096 [0.13]	0.045 U	0.041
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.039 U [0.039 U]	0.045 U	0.038 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.039 U [0.039 U]	0.045 U	0.038 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.039 U [0.039 U]	0.045 U	0.038 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.054	0.096 [0.13]	0.045 U	0.041
Inorganic											
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.16 U	0.15 U [0.15 U]	0.18 U	0.14 U
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	4.5	4.1 [3.5]	**10 (SDBL (2013))**	3.2
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	37	38 [33]	**120 (SDBL (2013))**	28
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.36	0.26 [0.23]	0.81	0.2
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.11 U	0.13 U [0.14 U]	0.18	0.12 U
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	12	9.6 [8.6]	**26 (SDBL (2013))**	15
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	5.1	4 [3.7]	**10 (SDBL (2013))**	3.8
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	9	**90 (SDBL (2013)) [63 (SDBL (2013))]**	19	30
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.2 U	0.2 U [0.2 U]	0.3 U	**0.52 J (SDBL (2013))**
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	8.4	7.1 [7]	16	8.8
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	200	180 [130]	400	160
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.0371 J	0.0707 J [0.0696 J]	0.052 J	0.00524 J
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	11	9.2 [8.8]	**26 (SDBL (2013))**	13
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	0.25 J	0.18 [0.17]	0.13	0.14
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.077 J	0.12 J [0.052 J]	0.14 J	0.063 J
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.12 J	0.12 J [0.093 J]	0.29	0.078 J
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	21	18 [18]	42	18
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	33	28 [22]	**53 (SDBL (2013))**	20
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	913,000	888,000 [907,000]	775,000	924,000

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-53 6.9 - 8.9 04/11/03	RFI-83/84-53 8.9 - 10.9 04/11/03	TW-83/84-49-1 7 - 9 11/12/13	TW-83/84-49-1 9 - 11 11/12/13	TW-83/84-49-1 11 - 13 11/12/13	TW-83/84-49-1 13 - 15 11/12/13
VOC													
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.036 U	0.041 U	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.072 U	0.081 U	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.16 U	0.17 U	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.036 U	0.041 U	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.036 U	0.041 U	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.036 U	0.041 U	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.16 U	0.17 U	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.16 U	0.17 U	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.16 U	0.17 U	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.072 U	0.081 U	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.036 U	0.041 U	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.036 U	0.041 U	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.072 U	0.081 U	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.072 U	0.081 U	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.31 U	0.35 U	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.072 U	0.081 U	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	1.6 U	1.7 U	NA	NA	NA	NA
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.31 U	0.35 U	NA	NA	NA	NA
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.036 U	0.041 U	NA	NA	NA	NA
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.072 U	0.081 U	NA	NA	NA	NA
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.072 U	0.081 U	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.16 UJ	0.17 UJ	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.16 U	0.17 U	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.036 U	0.041 U	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.036 U	0.041 U	NA	NA	NA	NA
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.16 U	0.17 U	NA	NA	NA	NA
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.036 U	0.041 U	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.16 U	0.17 U	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.036 U	0.041 U	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.036 U	0.041 U	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.046 J	0.17 U	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.072 U	0.081 U	NA	NA	NA	NA
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.072 U	0.081 U	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.036 U	0.041 U	NA	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-53 6.9 - 8.9 04/11/03	RFI-83/84-53 8.9 - 10.9 04/11/03	TW-83/84-49-1 7 - 9 11/12/13	TW-83/84-49-1 9 - 11 11/12/13	TW-83/84-49-1 11 - 13 11/12/13	TW-83/84-49-1 13 - 15 11/12/13
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.035 J	0.17 U	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.072 U	0.081 U	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.16 UJ	0.17 UJ	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.16 U	0.17 U	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.58	0.092 J	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.16 U	0.17 U	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.036 U	0.041 U	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.036 U	0.041 U	NA	NA	NA	NA
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.036 U	0.041 U	NA	NA	NA	NA
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.072 U	0.081 U	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.036 U	0.041 U	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.036 U	0.041 U	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.036 U	0.041 U	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.072 U	0.081 U	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.072 U	0.081 U	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.036 U	0.041 U	NA	NA	NA	NA
SVOC													
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	1.8 U	4 U	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	1.8 U	4 U	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	1.8 U	4 U	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	1.8 U	4 U	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	1.8 U	4 U	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	1.8 U	4 U	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	7 U	16 U	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	7 U	16 U	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	1.8 U	4 U	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	1.8 U	4 U	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	1.8 U	4 U	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	1.8 U	4 U	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	1.8 U	4 U	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	7 U	16 U	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	1.8 U	4 U	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	3.6 UJ	8.1 UJ	NA	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-53 6.9 - 8.9 04/11/03	RFI-83/84-53 8.9 - 10.9 04/11/03	TW-83/84-49-1 7 - 9 11/12/13	TW-83/84-49-1 9 - 11 11/12/13	TW-83/84-49-1 11 - 13 11/12/13	TW-83/84-49-1 13 - 15 11/12/13
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	7 U	16 U	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	7 U	16 U	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	7 U	16 U	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	1.8 U	4 U	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	1.8 U	4 U	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	7 UJ	16 UJ	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	7 U	16 U	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	7 U	16 U	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	7 U	16 U	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	1.8 U	4 U	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	1.8 U	4 U	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	1.8 U	4 U	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	1.8 U	4 U	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	1.8 U	4 U	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	1.8 UJ	4 UJ	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	1.8 U	4 U	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	1.8 U	4 U	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	1.8 U	4 U	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	1.8 U	4 U	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	1.8 U	4 U	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	1.8 U	4 U	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.35 U	0.78 U	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	1.8 U	4 U	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	1.8 U	4 U	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	1.8 U	4 U	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	1.8 U	4 U	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	1.8 U	4 U	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	1.8 UJ	4 UJ	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	1.8 U	4 U	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	1.8 U	4 U	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	1.8 U	4 U	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	1.8 U	4 U	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	1.8 U	4 U	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.892 J	4 U	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	1.8 U	4 U	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	1.8 U	4 U	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	1.8 U	4 U	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	1.8 U	4 U	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	1.8 U	4 U	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	1.8 UJ	4 UJ	NA	NA	NA	NA
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	1.8 U	4 U	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	1.8 U	4 U	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	1.8 U	4 U	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.7 U	1.6 U	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	1.8 U	4 U	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	1.8 U	4 U	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	7 U	16 U	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	1.48 J	2.39 J	NA	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-53 6.9 - 8.9 04/11/03	RFI-83/84-53 8.9 - 10.9 04/11/03	TW-83/84-49-1 7 - 9 11/12/13	TW-83/84-49-1 9 - 11 11/12/13	TW-83/84-49-1 11 - 13 11/12/13	TW-83/84-49-1 13 - 15 11/12/13
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	1.8 U	4 U	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	1.46 J	2.28 J	NA	NA	NA	NA
PCB													
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.037 U	0.042 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.037 U	0.042 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.037 U	0.042 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.057	0.042 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.037 U	0.042 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.037 U	0.042 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.037 U	0.042 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.057	0.042 U	0.33 U	0.33 U	0.33 U	0.33 U
Inorganic													
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.021 J	0.15 U	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	2.2	4.5	NA	NA	NA	NA
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	7.7	55	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.11	0.49	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.079 U	0.16	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	5.3	16	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	2.3	6.7	NA	NA	NA	NA
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	7.7	12	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.2 U	0.2 U	NA	NA	NA	NA
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	3.8	9.8	NA	NA	NA	NA
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	160	**510 (SDBL (2013))**	NA	NA	NA	NA
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.0192 J	0.059 J	NA	NA	NA	NA
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	7.2	17	NA	NA	NA	NA
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	0.14	0.091	NA	NA	NA	NA
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.024 J	0.075 J	NA	NA	NA	NA
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.046 J	0.19	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	9.9	28	NA	NA	NA	NA
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	16	35	NA	NA	NA	NA
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	956,000	843,000	860,000	720,000	860,000	840,000

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-83/84-49-2 5 - 7 11/15/13	TW-83/84-49-2 7 - 9 11/15/13	TW-83/84-49-2 9 - 11 11/15/13	TW-83/84-49-2 11 - 13 11/15/13	TW-83/84-49-2 13 - 15 11/15/13	TW-83/84-49-2 15 - 17 11/15/13
VOC													
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-83/84-49-2 5 - 7 11/15/13	TW-83/84-49-2 7 - 9 11/15/13	TW-83/84-49-2 9 - 11 11/15/13	TW-83/84-49-2 11 - 13 11/15/13	TW-83/84-49-2 13 - 15 11/15/13	TW-83/84-49-2 15 - 17 11/15/13
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA
SVOC													
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-83/84-49-2 5 - 7 11/15/13	TW-83/84-49-2 7 - 9 11/15/13	TW-83/84-49-2 9 - 11 11/15/13	TW-83/84-49-2 11 - 13 11/15/13	TW-83/84-49-2 13 - 15 11/15/13	TW-83/84-49-2 15 - 17 11/15/13
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-83/84-49-2 5 - 7 11/15/13	TW-83/84-49-2 7 - 9 11/15/13	TW-83/84-49-2 9 - 11 11/15/13	TW-83/84-49-2 11 - 13 11/15/13	TW-83/84-49-2 13 - 15 11/15/13	TW-83/84-49-2 15 - 17 11/15/13
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA
PCB													
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.4	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.33 U	0.33 U	0.4	0.33 U	0.33 U
Inorganic													
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	840,000	850,000	870,000	840,000	810,000	790,000

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-83/84-49-3 5 - 7 11/15/13	TW-83/84-49-3 7 - 9 11/15/13	TW-83/84-49-3 9 - 11 11/15/13	TW-83/84-49-3 11 - 13 11/15/13	TW-83/84-49-3 13 - 15 11/15/13	TW-83/84-49-3 15 - 17 11/15/13
VOC													
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-83/84-49-3 5 - 7 11/15/13	TW-83/84-49-3 7 - 9 11/15/13	TW-83/84-49-3 9 - 11 11/15/13	TW-83/84-49-3 11 - 13 11/15/13	TW-83/84-49-3 13 - 15 11/15/13	TW-83/84-49-3 15 - 17 11/15/13
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA
SVOC													
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-83/84-49-3 5 - 7 11/15/13	TW-83/84-49-3 7 - 9 11/15/13	TW-83/84-49-3 9 - 11 11/15/13	TW-83/84-49-3 11 - 13 11/15/13	TW-83/84-49-3 13 - 15 11/15/13	TW-83/84-49-3 15 - 17 11/15/13
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-83/84-49-3 5 - 7 11/15/13	TW-83/84-49-3 7 - 9 11/15/13	TW-83/84-49-3 9 - 11 11/15/13	TW-83/84-49-3 11 - 13 11/15/13	TW-83/84-49-3 13 - 15 11/15/13	TW-83/84-49-3 15 - 17 11/15/13
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA
PCB													
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Inorganic													
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	800,000	870,000	790,000	900,000	830,000	800,000

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-83/84-49-4 7 - 9 11/15/13	TW-83/84-49-4 9 - 11 11/15/13	TW-83/84-49-4 11 - 13 11/15/13	TW-83/84-49-4 13 - 15 11/15/13	TW-83/84-49-4 15 - 17 11/15/13	TW-83/84-49-5 7 - 9 11/15/13
VOC													
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-83/84-49-4 7 - 9 11/15/13	TW-83/84-49-4 9 - 11 11/15/13	TW-83/84-49-4 11 - 13 11/15/13	TW-83/84-49-4 13 - 15 11/15/13	TW-83/84-49-4 15 - 17 11/15/13	TW-83/84-49-5 7 - 9 11/15/13
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA
SVOC													
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-83/84-49-4 7 - 9 11/15/13	TW-83/84-49-4 9 - 11 11/15/13	TW-83/84-49-4 11 - 13 11/15/13	TW-83/84-49-4 13 - 15 11/15/13	TW-83/84-49-4 15 - 17 11/15/13	TW-83/84-49-5 7 - 9 11/15/13
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-83/84-49-4 7 - 9 11/15/13	TW-83/84-49-4 9 - 11 11/15/13	TW-83/84-49-4 11 - 13 11/15/13	TW-83/84-49-4 13 - 15 11/15/13	TW-83/84-49-4 15 - 17 11/15/13	TW-83/84-49-5 7 - 9 11/15/13
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA
PCB													
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Inorganic													
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	860,000	840,000	860,000	810,000	770,000	870,000

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-83/84-49-5 9 - 11 11/15/13	TW-83/84-49-5 11 - 13 11/15/13	TW-83/84-49-5 13 - 15 11/15/13	TW-83/84-49-5 15 - 17 11/15/13	TW-83/84-49-6 7 - 9 11/15/13	TW-83/84-49-6 9 - 11 11/15/13
VOC													
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-83/84-49-5 9 - 11 11/15/13	TW-83/84-49-5 11 - 13 11/15/13	TW-83/84-49-5 13 - 15 11/15/13	TW-83/84-49-5 15 - 17 11/15/13	TW-83/84-49-6 7 - 9 11/15/13	TW-83/84-49-6 9 - 11 11/15/13
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA
SVOC													
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-83/84-49-5 9 - 11 11/15/13	TW-83/84-49-5 11 - 13 11/15/13	TW-83/84-49-5 13 - 15 11/15/13	TW-83/84-49-5 15 - 17 11/15/13	TW-83/84-49-6 7 - 9 11/15/13	TW-83/84-49-6 9 - 11 11/15/13
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-83/84-49-5 9 - 11 11/15/13	TW-83/84-49-5 11 - 13 11/15/13	TW-83/84-49-5 13 - 15 11/15/13	TW-83/84-49-5 15 - 17 11/15/13	TW-83/84-49-6 7 - 9 11/15/13	TW-83/84-49-6 9 - 11 11/15/13
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA
PCB													
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.3 b	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.3	0.33 U	0.33 U	0.33 U	0.33 U
Inorganic													
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	830,000	870,000	830,000	780,000	870,000	840,000

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-83/84-49-6 11 - 13 11/15/13	TW-83/84-49-6 13 - 15 11/15/13	TW-83/84-49-6 15 - 17 11/15/13	TW-83/84-49-6 17 - 19 11/15/13	TW-83/84-49-7 3 - 5 11/12/13	TW-83/84-49-7 5 - 7 11/12/13
VOC													
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-83/84-49-6 11 - 13 11/15/13	TW-83/84-49-6 13 - 15 11/15/13	TW-83/84-49-6 15 - 17 11/15/13	TW-83/84-49-6 17 - 19 11/15/13	TW-83/84-49-7 3 - 5 11/12/13	TW-83/84-49-7 5 - 7 11/12/13
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA
SVOC													
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-83/84-49-6 11 - 13 11/15/13	TW-83/84-49-6 13 - 15 11/15/13	TW-83/84-49-6 15 - 17 11/15/13	TW-83/84-49-6 17 - 19 11/15/13	TW-83/84-49-7 3 - 5 11/12/13	TW-83/84-49-7 5 - 7 11/12/13
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-83/84-49-6 11 - 13 11/15/13	TW-83/84-49-6 13 - 15 11/15/13	TW-83/84-49-6 15 - 17 11/15/13	TW-83/84-49-6 17 - 19 11/15/13	TW-83/84-49-7 3 - 5 11/12/13	TW-83/84-49-7 5 - 7 11/12/13
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	NA
PCB													
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	3.6 Y	0.5
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.33 U	0.33 U	0.33 U	3.6	0.5
Inorganic													
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	830,000	830,000	840,000	820,000	840,000	850,000

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-83/84-49-7 7 - 9 11/12/13	TW-83/84-49-7 9 - 11 11/12/13	TW-83/84-49-7 11 - 13 11/12/13	TW-83/84-49-7 15 - 17 11/12/13
VOC											
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	NA	NA	NA	NA
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	NA	NA	NA	NA
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-83/84-49-7 7 - 9 11/12/13	TW-83/84-49-7 9 - 11 11/12/13	TW-83/84-49-7 11 - 13 11/12/13	TW-83/84-49-7 15 - 17 11/12/13
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-83/84-49-7 7 - 9 11/12/13	TW-83/84-49-7 9 - 11 11/12/13	TW-83/84-49-7 11 - 13 11/12/13	TW-83/84-49-7 15 - 17 11/12/13
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA

Table F-2

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	TW-83/84-49-7 7 - 9 11/12/13	TW-83/84-49-7 9 - 11 11/12/13	TW-83/84-49-7 11 - 13 11/12/13	TW-83/84-49-7 15 - 17 11/12/13
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA
PCB											
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.33 U	0.33 U	0.33 U
Inorganic											
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	NA	NA	NA	NA
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	850,000	840,000	840,000	780,000

Table F-3

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	MW-83/84-10 05/07/13	RFI-83/84-06 10/16/01	RFI-83/84-06 09/17/02	RFI-83/84-27 03/19/13	RFI-83/84-49 06/19/03	RFI-83/84-53 03/19/13
VOC							
1,1,1,2-Tetrachloroethane	mg/kg	10 UX	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
1,1,2,2-Tetrachloroethane	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	NA	6.3 U	NA	NA	0.62 U	NA
1,1,2-Trichloroethane	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
1,1-Dichloroethane	mg/kg	10 UX	1.3 U	NA	NA	0.056 J	NA
1,1-Dichloroethene	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
1,2,3-Trichlorobenzene	mg/kg	10 UX	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	10 UX	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	10 UX	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
1,2,4-Trimethylbenzene	mg/kg	10 UX	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
1,2-Dibromoethane	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
1,2-Dichlorobenzene	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
1,2-Dichloroethane	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
1,2-Dichloropropane	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
1,3,5-Trimethylbenzene	mg/kg	10 UX	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
1,4-Dichlorobenzene	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
2-Butanone	mg/kg	100 UX	0.99 J	NA	NA	0.62 U	NA
2-Hexanone	mg/kg	100 UX	6.3 U	NA	NA	0.62 U	NA
2-Methylnaphthalene	mg/kg	20 X	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	100 UX	6.3 U	NA	NA	0.62 U	NA
Acetone	mg/kg	100 UX	1.4 J	NA	NA	0.62 U	NA
Acrylonitrile	mg/kg	10 UX	NA	NA	NA	NA	NA
Benzene	mg/kg	10 UX	1.3 U	NA	NA	0.17	NA
Bromobenzene	mg/kg	10 UX	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	10 UX	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
Bromoform	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
Bromomethane	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
Carbon Disulfide	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
Carbon Tetrachloride	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
Chlorobenzene	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
Chloroethane	mg/kg	10 UX	1.3 U	NA	NA	0.23	NA
Chloroform	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA

Table F-3

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	MW-83/84-10 05/07/13	RFI-83/84-06 10/16/01	RFI-83/84-06 09/17/02	RFI-83/84-27 03/19/13	RFI-83/84-49 06/19/03	RFI-83/84-53 03/19/13
Chloromethane	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
cis-1,2-Dichloroethene	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
cis-1,3-Dichloropropene	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
Cyclohexane	mg/kg	NA	15	NA	NA	0.92	NA
Dibromochloromethane	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
Dibromomethane	mg/kg	10 UX	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
Diethyl ether	mg/kg	10 UX	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	10 UX	1.3 U	NA	NA	0.1 J	NA
Hexachloroethane	mg/kg	10 UX	NA	NA	NA	NA	NA
Iodomethane	mg/kg	10 UX	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	10 UX	13	NA	NA	1.3	NA
m&p-Xylene	mg/kg	20 UX	0.69 J	NA	NA	0.44	NA
Methyl acetate	mg/kg	NA	6.3 U	NA	NA	0.62 U	NA
Methyl tert-butyl ether	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
Methylcyclohexane	mg/kg	NA	67	NA	NA	12 D	NA
Methylene Chloride	mg/kg	20 UX	3.5 J	NA	NA	0.62 U	NA
Naphthalene	mg/kg	20 UX	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10 UX	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10 UX	NA	NA	NA	NA	NA
o-Xylene	mg/kg	10 UX	1.3 U	NA	NA	0.73	NA
p-Isopropyltoluene	mg/kg	10 UX	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10 UX	NA	NA	NA	NA	NA
Styrene	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
tert-Butylbenzene	mg/kg	10 UX	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
Tetrahydrofuran	mg/kg	100 UX	NA	NA	NA	NA	NA
Toluene	mg/kg	10 UX	1.3 U	NA	NA	0.1 J	NA
trans-1,2-Dichloroethene	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
trans-1,3-Dichloropropene	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
trans-1,4-Dichloro-2-butene	mg/kg	10 UX	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
Trichlorofluoromethane	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
Vinyl Chloride	mg/kg	10 UX	1.3 U	NA	NA	0.12 U	NA
Xylenes (total)	mg/kg	10 U	1.3 U	NA	NA	0.73	NA
SVOC							
1,1'-Biphenyl	mg/kg	NA	490 U	NA	NA	500 U	NA
1,2,4-Trichlorobenzene	mg/kg	149 UXT	NA	NA	NA	NA	NA

Table F-3

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	MW-83/84-10 05/07/13	RFI-83/84-06 10/16/01	RFI-83/84-06 09/17/02	RFI-83/84-27 03/19/13	RFI-83/84-49 06/19/03	RFI-83/84-53 03/19/13
1,2-Dichlorobenzene	mg/kg	149 UXT	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	149 UXT	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	149 UXT	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	149 UXT	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
2,4,5-Trichlorophenol	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
2,4,6-Trichlorophenol	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
2,4-Dichlorophenol	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
2,4-Dimethylphenol	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
2,4-Dinitrophenol	mg/kg	149 UXT	1,900 UJ	NA	NA	2,000 U	NA
2,4-Dinitrotoluene	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
2,6-Dinitrotoluene	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
2-Chloronaphthalene	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
2-Chlorophenol	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
2-Methylnaphthalene	mg/kg	149 UXT	74 J	NA	NA	500 U	NA
2-Methylphenol	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
2-Nitroaniline	mg/kg	149 UXT	1,900 U	NA	NA	2,000 U	NA
2-Nitrophenol	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
3&4-Methylphenol	mg/kg	149 UXT	970 UJ	NA	NA	990 UJ	NA
3,3'-Dichlorobenzidine	mg/kg	149 UXT	1,900 U	NA	NA	2,000 U	NA
3-Nitroaniline	mg/kg	149 UXT	1,900 U	NA	NA	2,000 U	NA
4,6-Dinitro-2-methylphenol	mg/kg	149 UXT	1,900 U	NA	NA	2,000 U	NA
4-Bromophenyl-phenylether	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
4-Chloro-3-Methylphenol	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
4-Chloroaniline	mg/kg	149 UXT	1,900 U	NA	NA	2,000 U	NA
4-Chlorophenyl-phenylether	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
4-Nitroaniline	mg/kg	149 UXT	1,900 U	NA	NA	2,000 U	NA
4-Nitrophenol	mg/kg	149 UXT	1,900 U	NA	NA	2,000 U	NA
Acenaphthene	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
Acenaphthylene	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
Acetophenone	mg/kg	NA	490 U	NA	NA	500 U	NA
Anthracene	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
Atrazine	mg/kg	NA	490 UJ	NA	NA	500 U	NA
Benzaldehyde	mg/kg	NA	490 U	NA	NA	500 UJ	NA
Benzo(a)anthracene	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
Benzo(a)pyrene	mg/kg	149 UXT	490 U	NA	NA	2,500 U	NA
Benzo(b)fluoranthene	mg/kg	149 UXT	490 U	NA	NA	2,500 U	NA
Benzo(g,h,i)perylene	mg/kg	149 UXT	490 U	NA	NA	2,500 U	NA

Table F-3

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	MW-83/84-10 05/07/13	RFI-83/84-06 10/16/01	RFI-83/84-06 09/17/02	RFI-83/84-27 03/19/13	RFI-83/84-49 06/19/03	RFI-83/84-53 03/19/13
Benzo(k)fluoranthene	mg/kg	149 UXT	490 U	NA	NA	2,500 U	NA
bis(2-Chloroethoxy)methane	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
bis(2-Chloroethyl)ether	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
bis(2-Ethylhexyl)phthalate	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
Butylbenzylphthalate	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
Caprolactam	mg/kg	NA	490 U	NA	NA	500 U	NA
Carbazole	mg/kg	NA	490 U	NA	NA	500 U	NA
Chrysene	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
Dibenzo(a,h)anthracene	mg/kg	149 UXT	490 U	NA	NA	2,500 U	NA
Dibenzofuran	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
Diethylphthalate	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
Dimethylphthalate	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
Di-n-Butylphthalate	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
Di-n-Octylphthalate	mg/kg	149 UXT	490 U	NA	NA	2,500 U	NA
Fluoranthene	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
Fluorene	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
Hexachlorobenzene	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
Hexachlorobutadiene	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
Hexachlorocyclopentadiene	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
Hexachloroethane	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
Indeno(1,2,3-cd)pyrene	mg/kg	149 UXT	490 U	NA	NA	2,500 U	NA
Isophorone	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
Methylphenols, Total	mg/kg	149 U	490 U	NA	NA	500 U	NA
Naphthalene	mg/kg	149 UXT	63 J	NA	NA	500 U	NA
Nitrobenzene	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
N-Nitroso-di-n-propylamine	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
N-Nitrosodiphenylamine	mg/kg	299 UXT	490 U	NA	NA	500 U	NA
Pentachlorophenol	mg/kg	149 UXT	1,900 U	NA	NA	2,000 U	NA
Phenanthrene	mg/kg	149 UXT	110 J	NA	NA	81 J	NA
Phenol	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
Pyrene	mg/kg	149 UXT	490 U	NA	NA	500 U	NA
PCB							
Aroclor-1016	mg/kg	2 U	0.98 U	NA	1 U	0.96 U	1 U
Aroclor-1221	mg/kg	2 U	0.98 U	NA	1 U	0.96 U	1 U
Aroclor-1232	mg/kg	2 U	0.98 U	NA	1 U	0.96 U	1 U
Aroclor-1242	mg/kg	16	0.98 U	NA	1 U	0.96 U	1 U
Aroclor-1248	mg/kg	2 U	1.6 J	NA	1 U	55	1
Aroclor-1254	mg/kg	2 U	4.5	NA	1 U	0.96 U	1 U

Table F-3

Priority # 7 - AOI 83/84-2 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	MW-83/84-10 05/07/13	RFI-83/84-06 10/16/01	RFI-83/84-06 09/17/02	RFI-83/84-27 03/19/13	RFI-83/84-49 06/19/03	RFI-83/84-53 03/19/13
Aroclor-1260	mg/kg	2 U	0.98 U	NA	1 U	7.4	1 U
Aroclor-1262	mg/kg	NA	NA	NA	NA	NA	NA
Aroclor-1268	mg/kg	NA	NA	NA	NA	NA	NA
Total PCBs	mg/kg	16	6.1 J	NA	1 U	62.4	1
Inorganic							
Antimony	mg/kg	0.5 U	0.33 J	NA	0.5 U	0.95 U	0.5 U
Arsenic	mg/kg	1.33	1.7 J	NA	0.4	1.2 J	0.68
Barium	mg/kg	1.2	1.7 J	NA	3.72	0.5 J	1 U
Beryllium	mg/kg	0.2 U	0.38 U	NA	0.2 U	0.48 U	0.2 U
Cadmium	mg/kg	0.2 U	0.021 J	NA	0.2 U	0.24 U	0.2 U
Chromium Total	mg/kg	0.66	3.9 J	NA	3.67	2.6 J	0.94
Cobalt	mg/kg	0.5 U	0.75 U	NA	0.5 U	0.95 U	0.5 U
Copper	mg/kg	4.71	4.9 J	NA	22.6	2.3 J	2.93
Cyanide (total)	mg/kg	NA	0.2 U	NA	2 U	0.2 U	2 U
Lead	mg/kg	15.6	2.3 J	NA	4.71	0.3 J	0.62
Manganese	mg/kg	1	1.7 J	NA	3.08	0.17 J	0.5 U
Mercury	mg/kg	NA	0.02 U	NA	0.05 U	0.019 U	0.1243
Nickel	mg/kg	0.66	0.61 J	NA	0.5 U	0.95 U	0.73
Selenium	mg/kg	0.4 U	0.24 J	NA	0.4 U	0.48 U	0.4 U
Silver	mg/kg	0.2 U	0.14 J	NA	0.1 U	0.95 U	0.1 U
Thallium	mg/kg	0.2 U	0.13 J	NA	0.2 U	0.95 U	0.2 U
Vanadium	mg/kg	0.5 U	1.3 J	NA	0.54	0.81	0.5 U
Zinc	mg/kg	1 U	4.2	NA	1.15	1.6 J	1 U
Miscellaneous							
Asbestos	mg/kg	NA	NA	NA	NA	NA	NA
Ignitability	deg f	NA	NA	200 U	NA	NA	NA
Interfacial Tension	dynes/cm	NA	27	NA	NA	23	NA
Specific gravity	sg	NA	0.89	NA	NA	0.90	NA
Viscosity	cp	NA	37.6	NA	NA	45.5	NA

Table G-1

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Groundwater Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	RFI-36-23 02/20/02	RFI-36-23 06/19/02	RFI-36-24 10/05/01	RFI-36-24 06/19/02	RFI-36-25R 02/26/02	RFI-36-25R 06/19/02	RFI-36-27 02/20/02	RFI-36-32 09/28/01
VOC												
1,1,1-Trichloroethane	ug/L	{ID}	1,300,000 {(S)}	1,330,000	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	{ID}	77,000	2,970,000	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	170,000 {(S)}	170,000	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
1,1,2-Trichloroethane	ug/L	{NA}	110,000	4,420,000	1 U	1 U	1.1	1 U	1 U	NA	1 U	1 U
1,1-Dichloroethane	ug/L	380,000	2,300,000	5,060,000	1.7	1 U	68	6.4	1.8	NA	0.83 J	1 U
1,1-Dichloroethene	ug/L	97,000	1,300	2,250,000	1 U	1 U	13	1.6	1 U	NA	1 U	1 U
1,2,4-Trichlorobenzene	ug/L	{NA}	300,000 {(S)}	300,000	5 U	5 U	5 U	5 U	5 U	NA	5 U	5 U
1,2-Dibromo-3-chloropropane	ug/L	{NA}	1,200 {(S)}	1,230	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
1,2-Dibromoethane	ug/L	{ID}	15,000	4,200,000	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
1,2-Dichlorobenzene	ug/L	{NA}	160,000 {(S)}	156,000	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
1,2-Dichloroethane	ug/L	2,500,000	59,000	8,520,000	0.84 J	1 U	1 U	1 U	1 U	NA	1 U	1 U
1,2-Dichloropropane	ug/L	550,000	36,000	2,800,000	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
1,3-Dichlorobenzene	ug/L	{ID}	41,000	111,000	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
1,4-Dichlorobenzene	ug/L	{NA}	74,000 {(S)}	73,800	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
2-Butanone	ug/L	{ID}	240,000,000 {(S)}	240,000,000	25 U	25 U	25 U	25 U	25 U	NA	25 U	25 U
2-Hexanone	ug/L	{NA}	8,700,000	16,000,000	50 U	50 U	50 U	50 U	50 U	NA	50 U	50 U
4-Methyl-2-pentanone	ug/L	{ID}	20,000,000 {(S)}	20,000,000	50 U	50 U	50 U	50 UJ	50 U	NA	50 U	50 U
Acetone	ug/L	15,000,000	1,000,000,000 {(D,S)}	1,000,000,000	25 U	25 U	25 U	1.2 J	25 U	NA	25 U	25 U
Benzene	ug/L	68,000	35,000	1,750,000	1 U	1 U	0.6 J	1 U	1 U	NA	1 U	0.53 J
Bromodichloromethane	ug/L	{ID}	37,000	6,740,000	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Bromoform	ug/L	{ID}	3,100,000 {(S)}	3,100,000	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Bromomethane	ug/L	{ID}	9,000	14,500,000	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Carbon Disulfide	ug/L	13,000	550,000	1,190,000	5 U	0.85 J	5 U	0.97 J	5 U	NA	5 U	5 U
Carbon Tetrachloride	ug/L	{ID}	2,400	793,000	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Chlorobenzene	ug/L	160,000	470,000 {(S)}	472,000	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Chloroethane	ug/L	110,000	5,700,000 {(S)}	5,740,000	1 U	21	1 U	1 U	1 U	NA	1 U	1 U
Chloroform	ug/L	{ID}	180,000	7,920,000	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Chloromethane	ug/L	36,000	45,000	6,340,000	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
cis-1,2-Dichloroethene	ug/L	530,000	210,000	3,500,000	1 U	1 U	150 D	1 U	1 U	NA	1 U	1 U
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Cyclohexane	ug/L	- -	- -	- -	5 U	5 U	5 U	5 U	5 U	NA	5 U	5 U
Dibromochloromethane	ug/L	{ID}	110,000	2,600,000	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Dichlorodifluoromethane	ug/L	{ID}	300,000 {(S)}	300,000	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Ethylbenzene	ug/L	43,000	170,000 {(S)}	169,000	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Isopropylbenzene	ug/L	29,000	56,000 {(S)}	56,000	5 U	5 U	5 U	5 U	5 U	NA	5 U	5 U
m&p-Xylene	ug/L	- -	- -	- -	2 U	2 U	2 U	2 U	0.62 J	NA	2 U	2 U
Methyl acetate	ug/L	- -	- -	- -	5 U	5 U	5 U	5 U	5 U	NA	5 U	5 U
Methyl tert-butyl ether	ug/L	{ID}	47,000,000 {(S)}	46,800,000	5 U	5 U	5 U	5 U	5 U	NA	5 U	5 U

Table G-1

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Groundwater Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	RFI-36-23 02/20/02	RFI-36-23 06/19/02	RFI-36-24 10/05/01	RFI-36-24 06/19/02	RFI-36-25R 02/26/02	RFI-36-25R 06/19/02	RFI-36-27 02/20/02	RFI-36-32 09/28/01
Methylcyclohexane	ug/L	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Methylene Chloride	ug/L	{ID}	1,400,000	17,000,000	5 U	5 UJ	5 U	5 UJ	5 U	NA	5 U	5 U
Naphthalene	ug/L	{NA}	31,000 {(S)}	31,000	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	ug/L	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	ug/L	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Styrene	ug/L	140,000	310,000 {(S)}	310,000	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Tetrachloroethene	ug/L	{ID}	170,000	200,000	1 U	1 U	1 UJ	1 U	1 U	NA	1 U	1 U
Toluene	ug/L	61,000	530,000 {(S)}	526,000	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
trans-1,2-Dichloroethene	ug/L	230,000	200,000	6,300,000	1 U	1 U	6.4	1 U	1 U	NA	1 U	1 U
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Trichloroethene	ug/L	{ID}	4,900	1,100,000	1 U	1 U	99	1 U	1 U	NA	1 U	1 U
Trichlorofluoromethane	ug/L	{ID}	1,100,000 {(S)}	1,100,000	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
Vinyl Chloride	ug/L	33,000	13,000	2,760,000	1 U	1 U	4.6	1 U	1 U	NA	1 U	1 U
Xylenes (total)	ug/L	70,000	190,000 {(S)}	186,000	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
SVOC												
1,1'-Biphenyl	ug/L	- -	- -	- -	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
2,4,5-Trichlorophenol	ug/L	{ID}	{NLV}	1,200,000	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
2,4,6-Trichlorophenol	ug/L	{ID}	{NLV}	800,000	4.4 U	NA	4 U	NA	4 U	NA	4 U	4.1 U
2,4-Dichlorophenol	ug/L	{ID}	{NLV}	4,500,000	11 U	NA	10 U	NA	10 U	NA	10 U	10 U
2,4-Dimethylphenol	ug/L	{ID}	{NLV}	7,870,000	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
2,4-Dinitrophenol	ug/L	- -	- -	- -	22 U	NA	20 U	NA	20 UJ	NA	20 U	21 U
2,4-Dinitrotoluene	ug/L	{ID}	{NLV}	270,000	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
2,6-Dinitrotoluene	ug/L	- -	- -	- -	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
2-Chloronaphthalene	ug/L	{ID}	{ID}	6,740	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
2-Chlorophenol	ug/L	{ID}	1,100,000	22,000,000	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
2-Methylnaphthalene	ug/L	{ID}	25,000 {(S)}	24,600	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
2-Methylphenol	ug/L	- -	- -	- -	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
2-Nitroaniline	ug/L	- -	- -	- -	22 U	NA	20 U	NA	20 U	NA	20 U	21 U
2-Nitrophenol	ug/L	{ID}	{NLV}	2,500,000	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
3&4-Methylphenol	ug/L	- -	- -	- -	11 UJ	NA	10 UJ	NA	10 UJ	NA	10 UJ	10 UJ
3,3'-Dichlorobenzidine	ug/L	{ID}	{NLV}	3,110	22 U	NA	20 U	NA	20 U	NA	20 U	21 U
3-Nitroaniline	ug/L	- -	- -	- -	22 U	NA	20 U	NA	20 U	NA	20 U	21 U
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	22 U	NA	20 U	NA	20 U	NA	20 U	21 U
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
4-Chloro-3-Methylphenol	ug/L	{ID}	{NLV}	3,900,000	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
4-Chloroaniline	ug/L	- -	- -	- -	22 U	NA	20 U	NA	20 U	NA	20 U	21 U
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
4-Nitroaniline	ug/L	- -	- -	- -	22 U	NA	20 U	NA	20 U	NA	20 U	21 U

Table G-1

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Groundwater Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	RFI-36-23 02/20/02	RFI-36-23 06/19/02	RFI-36-24 10/05/01	RFI-36-24 06/19/02	RFI-36-25R 02/26/02	RFI-36-25R 06/19/02	RFI-36-27 02/20/02	RFI-36-32 09/28/01
4-Nitrophenol	ug/L	- -	- -	- -	22 U	NA	20 U	NA	20 UJ	NA	20 U	21 U
Acenaphthene	ug/L	{ID}	4,200 {(S)}	4,240	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
Acenaphthylene	ug/L	{ID}	3,900 {(S)}	3,930	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
Acetophenone	ug/L	{ID}	6,100,000 {(S)}	6,100,000	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
Anthracene	ug/L	{ID}	43 {(S)}	43.4	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
Atrazine	ug/L	{ID}	{NLV}	70,000	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
Benzaldehyde	ug/L	- -	- -	- -	5.6 UJ	NA	5 U	NA	5 U	NA	5 UJ	5.1 UJ
Benzo(a)anthracene	ug/L	{ID}	{NLV}	9.4	1.1 U	NA	1 U	NA	1 U	NA	1 U	1 U
Benzo(a)pyrene	ug/L	{ID}	{NLV}	1.62	**2.2 U**	NA	**2 U**	NA	**2 U**	NA	**2 U**	**2.1 U**
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	1.5	**2.2 U**	NA	**2 U**	NA	**2 U**	NA	**2 U**	**2.1 U**
Benzo(g,h,i)perylene	ug/L	{ID}	{NLV}	0.26	**5.6 U**	NA	**5 U**	NA	**5 U**	NA	**5 U**	**5.1 U**
Benzo(k)fluoranthene	ug/L	{ID}	{NLV}	0.8	**5.6 U**	NA	**5 U**	NA	**5 U**	NA	**5 U**	**5.1 U**
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	210,000	17,200,000	1.1 U	NA	1 U	NA	1 U	NA	1 U	1 U
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	{NLV}	340	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
Butylbenzylphthalate	ug/L	{ID}	{NLV}	2,690	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
Caprolactam	ug/L	{NA}	{NLV}	5,250,000,000	11 U	NA	10 U	NA	10 U	NA	10 U	10 U
Carbazole	ug/L	{ID}	{NLV}	7,480	11 U	NA	10 U	NA	10 U	NA	10 U	10 U
Chrysene	ug/L	{ID}	{ID}	1.6	**5.6 U**	NA	**5 U**	NA	**5 U**	NA	**5 U**	**5.1 U**
Dibenzo(a,h)anthracene	ug/L	{ID}	{NLV}	2.49	2.2 U	NA	2 U	NA	2 U	NA	2 U	2.1 U
Dibenzofuran	ug/L	{ID}	10,000 {(S)}	10,000	4.4 U	NA	4 U	NA	4 U	NA	4 U	4.1 U
Diethylphthalate	ug/L	{NA}	{NLV}	1,080,000	5.6 U	NA	5 U	NA	5 U	NA	1.19 J	5.1 U
Dimethylphthalate	ug/L	{NA}	{NLV}	4,190,000	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
Di-n-Butylphthalate	ug/L	{NA}	{NLV}	11,200	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
Di-n-Octylphthalate	ug/L	{ID}	{NLV}	3,000	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
Fluoranthene	ug/L	{ID}	210 {(S)}	206	2.2 U	NA	2 U	NA	2 U	NA	2 U	2.1 U
Fluorene	ug/L	{ID}	2,000 {(S)}	1,980	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
Hexachlorobenzene	ug/L	{ID}	3,000	6,200	1.1 U	NA	1 U	NA	1 U	NA	1 U	1 U
Hexachlorobutadiene	ug/L	{ID}	3,200 {(S)}	3,230	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
Hexachlorocyclopentadiene	ug/L	{ID}	420	1,800	R	NA	5 U	NA	5 U	NA	5 U	5.1 U
Hexachloroethane	ug/L	{ID}	50,000 {(S)}	50,000	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{NLV}	0.022	**2.2 U**	NA	**2 U**	NA	**2 U**	NA	**2 U**	**2.1 U**
Isophorone	ug/L	{ID}	{NLV}	12,000,000	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
Methylphenols, Total	ug/L	{NA}	{NLV}	28,000,000	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
Naphthalene	ug/L	{NA}	31,000 {(S)}	31,000	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
Nitrobenzene	ug/L	{NA}	550,000	2,090,000	2.2 U	NA	2 U	NA	2 U	NA	2 U	2.1 U
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NLV}	9,890,000	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
N-Nitrosodiphenylamine	ug/L	{ID}	{NLV}	35,100	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
Pentachlorophenol	ug/L	{ID}	{NLV}	1,850,000	22 U	NA	20 U	NA	20 U	NA	20 U	21 U

Table G-1

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Groundwater Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	RFI-36-23 02/20/02	RFI-36-23 06/19/02	RFI-36-24 10/05/01	RFI-36-24 06/19/02	RFI-36-25R 02/26/02	RFI-36-25R 06/19/02	RFI-36-27 02/20/02	RFI-36-32 09/28/01
Phenanthrene	ug/L	{ID}	1,000 {(S)}	1,000	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
Phenol	ug/L	{NA}	{NLV}	82,800,000	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
Pyrene	ug/L	{ID}	140 {(S)}	135	5.6 U	NA	5 U	NA	5 U	NA	5 U	5.1 U
PCB												
Aroclor-1016	ug/L	- -	- -	- -	0.1 U	NA	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U
Aroclor-1221	ug/L	- -	- -	- -	0.1 U	NA	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U
Aroclor-1232	ug/L	- -	- -	- -	0.1 U	NA	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U
Aroclor-1242	ug/L	- -	- -	- -	0.1 U	NA	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U
Aroclor-1248	ug/L	- -	- -	- -	0.1 U	NA	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U
Aroclor-1254	ug/L	- -	- -	- -	0.1 U	NA	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U
Aroclor-1260	ug/L	- -	- -	- -	0.1 U	NA	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U
Total PCBs	ug/L	{ID}	45 {(S)}	44.7	0.1 U	NA	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U
PCB-Dissolved												
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U
Total PCBs (Dissolved)	ug/L	{ID}	45 {(S)}	44.7	0.1 U	NA	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U
Inorganic												
Antimony	ug/L	{ID}	{NLV}	{NA}	NA	1.2 U	NA	NA	NA	1.2 U	NA	NA
Arsenic	ug/L	{ID}	{NLV}	{NA}	NA	93	NA	NA	NA	3.6	NA	NA
Barium	ug/L	{ID}	{NLV}	{NA}	NA	75	NA	NA	NA	390	NA	NA
Beryllium	ug/L	{ID}	{NLV}	{NA}	NA	0.4 UJ	NA	NA	NA	0.4 UJ	NA	NA
Cadmium	ug/L	{ID}	{NLV}	{NA}	NA	0.2 U	NA	NA	NA	0.2 U	NA	NA
Chromium Total	ug/L	- -	- -	- -	NA	1	NA	NA	NA	1	NA	NA
Cobalt	ug/L	{ID}	{NLV}	{NA}	NA	0.9	NA	NA	NA	0.76	NA	NA
Copper	ug/L	{ID}	{NLV}	{NA}	NA	4.4 J	NA	NA	NA	10 J	NA	NA
Cyanide (total)	ug/L	{ID}	{NLV}	{NA}	5 U	5 U	5 U	NA	5 U	5 U	5 U	0.96 J
Lead	ug/L	{ID}	{NLV}	{NA}	NA	0.17 J	NA	NA	NA	0.44	NA	NA
Manganese	ug/L	{ID}	{NLV}	{NA}	NA	98	NA	NA	NA	570	NA	NA
Mercury	ug/L	{ID}	56 {(S)}	56	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	ug/L	{ID}	{NLV}	{NA}	NA	10	NA	NA	NA	7.4	NA	NA
Selenium	ug/L	{ID}	{NLV}	{NA}	NA	1.4 U	NA	NA	NA	1.4 U	NA	NA
Silver	ug/L	{ID}	{NLV}	{NA}	NA	0.4 U	NA	NA	NA	0.4 U	NA	NA
Thallium	ug/L	{ID}	{NLV}	{NA}	NA	0.2 U	NA	NA	NA	0.057 J	NA	NA
Vanadium	ug/L	{ID}	{NLV}	{NA}	NA	3.8	NA	NA	NA	0.5 J	NA	NA

Table G-1

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Groundwater Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	RFI-36-23 02/20/02	RFI-36-23 06/19/02	RFI-36-24 10/05/01	RFI-36-24 06/19/02	RFI-36-25R 02/26/02	RFI-36-25R 06/19/02	RFI-36-27 02/20/02	RFI-36-32 09/28/01
Zinc	ug/L	{ID}	{NLV}	{NA}	NA	8.5 J	NA	NA	NA	30 J	NA	NA
Inorganic-Dissolved												
Antimony (Dissolved)	ug/L	{ID}	{NLV}	{NA}	1.2 U	NA	1.2 U	NA	1.2 UJ	NA	1.9 U	1.2 U
Arsenic (Dissolved)	ug/L	{ID}	{NLV}	{NA}	77	NA	1.6	NA	5 J	NA	76	50
Barium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	42	NA	R	NA	420 J	NA	430	210
Beryllium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	1.7 J	NA	0.4 UJ	NA	6.7 J	NA	30 J	0.4 U
Cadmium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.2 U	NA	0.32	NA	0.56 J	NA	2.2 J	0.2 U
Chromium Total (Dissolved)	ug/L	- -	- -	- -	7	NA	0.6 UJ	NA	16 J	NA	9.9	0.6 U
Cobalt (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.32	NA	0.65	NA	1.1 J	NA	4.1	3.3
Copper (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.64	NA	5.5 J	NA	3.1 J	NA	9.7 J	2.8
Cyanide (dissolved)	ug/L	{ID}	{NLV}	{NA}	5 U	NA	5 U	NA	1.6 J	NA	5 U	1.1 J
Lead (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.4 U	NA	0.91	NA	0.4 UJ	NA	1.1 J	1.8
Manganese (Dissolved)	ug/L	{ID}	{NLV}	{NA}	58	NA	250	NA	630 J	NA	270	1,600 J
Mercury (Dissolved)	ug/L	- -	- -	- -	0.2 U	NA	0.2 U	NA	0.2 U	NA	0.2 U	0.2 U
Nickel (Dissolved)	ug/L	{ID}	{NLV}	{NA}	12	NA	3.6	NA	12 J	NA	52	13
Selenium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	1.4 U	NA	1.4 U	NA	2.4 J	NA	6 U	1.4 U
Silver (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.4 UJ	NA	0.4 UJ	NA	1.2 J	NA	1.7 J	0.4 U
Thallium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.2 U	NA	0.2 U	NA	0.35 J	NA	0.91 U	0.2 U
Vanadium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	1.7	NA	0.8 U	NA	2.7 J	NA	0.8 U	0.8 U
Zinc (Dissolved)	ug/L	{ID}	{NLV}	{NA}	13	NA	19 J	NA	14 J	NA	29	19 J
Field Parameters												
Conductivity Field	mS/cm	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
pH Field	s.u.	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Field Parameters-Filtered												
Dissolved Oxygen, Field	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA

Table G-2

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Groundwater Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	36-FP1 09/27/01	36-FP1 06/14/02	36-FP1 03/27/03	36-FP1 06/09/05	36-FP1 10/27/11	36-FP1 06/05/13	36-FP2 09/28/01	36-FP2 06/14/02	36-FP2 03/25/03	36-FP5 09/28/01
VOC														
1,1,1,2-Tetrachloroethane	ug/L	{ID}	96,000	1,100,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/L	{ID}	1,300,000 {(S)}	1,330,000	140 JD	98 D	240 D	186	NA	3,700 Y	1 U	0.64 J	1 U	19
1,1,2,2-Tetrachloroethane	ug/L	{ID}	77,000	2,970,000	1 UJ	1 U	1 U	5 U	NA	200 UY	1 U	1 U	1 U	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	170,000 {(S)}	170,000	1 UJ	1 U	1 U	200 U	NA	6,000 UY	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/L	{NA}	110,000	4,420,000	1 UJ	1 U	1 U	5 U	NA	200 UY	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	380,000	2,300,000	5,060,000	310 JD	110 D	500 D	401	NA	600 Y	2.3	3.4	5.1	18
1,1-Dichloroethene	ug/L	97,000	1,300	2,250,000	1.7 J	1.1	5.6	5 U	NA	200 UY	1 U	1 U	1 U	2.6
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	ug/L	{NA}	18,000	1,900,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	{NA}	300,000 {(S)}	300,000	5 UJ	5 U	5 U	10 U	NA	400 UY	5 U	5 U	5 U	5 U
1,2,4-Trimethylbenzene	ug/L	56,000 {(S)}	56,000 {(S)}	55,890	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	{NA}	1,200 {(S)}	1,230	1 UJ	1 U	1 U	5 U	NA	200 UY	1 U	1 U	1 U	1 U
1,2-Dibromoethane	ug/L	{ID}	15,000	4,200,000	1 UJ	1 U	1 U	5 U	NA	200 UY	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	ug/L	{NA}	160,000 {(S)}	156,000	1 UJ	1 U	1 U	5 U	NA	200 UY	1 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/L	2,500,000	59,000	8,520,000	1 UJ	4.2	4	5 U	NA	200 UY	1 U	5.2	13	0.85 J
1,2-Dichloropropane	ug/L	550,000	36,000	2,800,000	1 UJ	1 U	1 U	5 U	NA	200 UY	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/L	{ID}	61,000 {(S)}	61,150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/L	{ID}	41,000	111,000	1 UJ	1 U	1 U	5 U	NA	200 UY	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	ug/L	{NA}	74,000 {(S)}	73,800	1 UJ	1 U	1 U	5 U	NA	200 UY	1 U	1 U	1 U	1 U
2-Butanone	ug/L	{ID}	240,000,000 {(S)}	240,000,000	1.2 J	25 U	25 U	100 U	NA	4,000 UY	25 U	25 U	25 U	25 U
2-Hexanone	ug/L	{NA}	8,700,000	16,000,000	50 UJ	50 U	50 U	300 U	NA	10,000 UY	50 U	50 U	50 U	50 U
2-Methylnaphthalene	ug/L	{ID}	25,000 {(S)}	24,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	ug/L	{ID}	20,000,000 {(S)}	20,000,000	50 UJ	50 U	50 U	5 U	NA	2,000 UY	50 U	50 U	50 U	50 U
Acetone	ug/L	15,000,000	1,000,000,000 {(D,S)}	1,000,000,000	4.8 J	25 U	25 U	100 U	NA	4,000 UY	25 U	25 U	25 U	25 U
Acrylonitrile	ug/L	6,400,000	190,000	75,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/L	68,000	35,000	1,750,000	2,000 JD	1,300 D	2,000 D	711	NA	200 UY	4,000 D	2,700 D	4,500 D	1.5
Bromobenzene	ug/L	{ID}	390,000	413,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/L	{ID}	37,000	6,740,000	1 UJ	1 U	1 U	5 U	NA	200 UY	1 U	1 U	1 U	1 U
Bromoform	ug/L	{ID}	3,100,000 {(S)}	3,100,000	1 UJ	1 U	1 U	5 U	NA	200 UY	1 U	1 U	1 U	1 U
Bromomethane	ug/L	{ID}	9,000	14,500,000	1 UJ	1 U	1 U	10 U	NA	400 UY	1 U	1 U	1 U	1 U
Carbon Disulfide	ug/L	13,000	550,000	1,190,000	5 UJ	5 U	5 U	30 U	NA	1,000 UY	5 U	5 U	5 UJ	5 U
Carbon Tetrachloride	ug/L	{ID}	2,400	793,000	1 UJ	1 U	1 U	5 U	NA	200 UY	1 U	1 U	1 U	1 U
Chlorobenzene	ug/L	160,000	470,000 {(S)}	472,000	1 UJ	1 U	1 U	5 U	NA	200 UY	1 U	1 U	1 U	1 U
Chloroethane	ug/L	110,000	5,700,000 {(S)}	5,740,000	52 J	23	89	69 J	NA	200 UY	17	21	9.8	1 U
Chloroform	ug/L	{ID}	180,000	7,920,000	1 UJ	1 U	1 U	5 U	NA	200 UY	1 U	1 U	1 U	1 U
Chloromethane	ug/L	36,000	45,000	6,340,000	1 UJ	1 U	1 U	5 U	NA	200 UY	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	ug/L	530,000	210,000	3,500,000	2.3 J	1.8	2.5	5 U	NA	200 UY	1 U	1 U	1 U	0.59 J
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	1 UJ	1 U	1 U	5 U	NA	200 UY	1 U	1 U	1 U	1 U
Cyclohexane	ug/L	- -	- -	- -	5 UJ	5 U	5 U	5 U	NA	200 UY	5 U	5 U	5 U	5 U

Table G-2

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Groundwater Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	36-FP1 09/27/01	36-FP1 06/14/02	36-FP1 03/27/03	36-FP1 06/09/05	36-FP1 10/27/11	36-FP1 06/05/13	36-FP2 09/28/01	36-FP2 06/14/02	36-FP2 03/25/03	36-FP5 09/28/01
Dibromochloromethane	ug/L	{ID}	110,000	2,600,000	1 UJ	1 U	1 U	5 U	NA	200 UY	1 U	1 U	1 U	1 U
Dibromomethane	ug/L	{ID}	{ID}	11,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/L	{ID}	300,000 {(S)}	300,000	1 UJ	1 U	1 U	5 U	NA	200 UY	1 U	1 U	1 U	1 U
Diethyl ether	ug/L	650,000	61,000,000 {(S)}	61,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/L	43,000	170,000 {(S)}	169,000	1 UJ	1 U	1 U	5 U	NA	200 UY	1 U	1 U	1 U	1 U
Hexachloroethane	ug/L	{ID}	50,000 {(S)}	50,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	ug/L	29,000	56,000 {(S)}	56,000	5 UJ	5 U	5 U	5 U	NA	200 UY	5 U	5 U	5 U	5 U
m&p-Xylene	ug/L	- -	- -	- -	2 UJ	2 U	2 U	5 U	NA	400 UY	2 U	2 U	2 U	2 U
Methyl acetate	ug/L	- -	- -	- -	5 UJ	5 U	5 UJ	50 U	NA	2,000 UY	5 U	5 U	5 U	5 U
Methyl tert-butyl ether	ug/L	{ID}	47,000,000 {(S)}	46,800,000	1 J	1 J	5 U	30 U	NA	1,000 UY	0.79 J	0.74 J	5 U	3.1 J
Methylcyclohexane	ug/L	- -	- -	- -	1 UJ	1 U	1 U	100 U	NA	4,000 UY	1 U	1 U	1 UJ	1 U
Methylene Chloride	ug/L	{ID}	1,400,000	17,000,000	5 UJ	5 UJ	5 U	30 U	NA	1,000 UY	5 U	5 UJ	5 U	5 U
Naphthalene	ug/L	{NA}	31,000 {(S)}	31,000	NA	NA	NA	NA	NA	1,000 UY	NA	NA	NA	NA
n-Butylbenzene	ug/L	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	ug/L	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	200 UY	NA	NA	NA	NA
o-Xylene	ug/L	- -	- -	- -	1 UJ	1 U	1 U	5 U	NA	200 UY	1 U	1 U	1 U	1 U
p-Isopropyltoluene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	ug/L	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/L	140,000	310,000 {(S)}	310,000	1 UJ	1 U	1 U	5 U	NA	200 UY	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/L	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/L	{ID}	170,000	200,000	1 UJ	1 UJ	1 U	5 U	NA	200 UY	1 U	1 UJ	1 U	1 U
Tetrahydrofuran	ug/L	60,000	16,000,000	1,000,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/L	61,000	530,000 {(S)}	526,000	1 UJ	1 U	1 U	5 U	NA	200 UY	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/L	230,000	200,000	6,300,000	0.72 J	1 U	1 U	5 U	NA	200 UY	0.61 J	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	1 UJ	1 U	1 U	5 U	NA	200 UY	1 U	1 U	1 U	1 U
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/L	{ID}	4,900	1,100,000	35 JD	18	18	5 J	NA	200 UY	1 U	1 U	1 U	1.2
Trichlorofluoromethane	ug/L	{ID}	1,100,000 {(S)}	1,100,000	1 UJ	1 U	1 U	5 U	NA	200 UY	1 U	1 U	1 U	1 U
Vinyl Chloride	ug/L	33,000	13,000	2,760,000	3.1 J	1.3	8.1	5 U	NA	200 UY	1 U	1 U	1 U	2.5
Xylenes (total)	ug/L	70,000	190,000 {(S)}	186,000	1 U	1 U	1 U	5 U	NA	200 U	1 U	1 U	1 U	1 U
SVOC														
1,1'-Biphenyl	ug/L	- -	- -	- -	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
2,4,5-Trichlorophenol	ug/L	{ID}	{NLV}	1,200,000	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
2,4,6-Trichlorophenol	ug/L	{ID}	{NLV}	800,000	4 U	NA	NA	NA	NA	NA	4 U	NA	NA	4.1 U
2,4-Dichlorophenol	ug/L	{ID}	{NLV}	4,500,000	10 U	NA	NA	NA	NA	NA	10 U	NA	NA	10 U
2,4-Dimethylphenol	ug/L	{ID}	{NLV}	7,870,000	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
2,4-Dinitrophenol	ug/L	- -	- -	- -	20 UJ	NA	NA	NA	NA	NA	20 U	NA	NA	21 U
2,4-Dinitrotoluene	ug/L	{ID}	{NLV}	270,000	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
2,6-Dinitrotoluene	ug/L	- -	- -	- -	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
2-Chloronaphthalene	ug/L	{ID}	{ID}	6,740	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U

Table G-2

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RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	36-FP1 09/27/01	36-FP1 06/14/02	36-FP1 03/27/03	36-FP1 06/09/05	36-FP1 10/27/11	36-FP1 06/05/13	36-FP2 09/28/01	36-FP2 06/14/02	36-FP2 03/25/03	36-FP5 09/28/01
2-Chlorophenol	ug/L	{ID}	1,100,000	22,000,000	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
2-Methylnaphthalene	ug/L	{ID}	25,000 {(S)}	24,600	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
2-Methylphenol	ug/L	- -	- -	- -	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
2-Nitroaniline	ug/L	- -	- -	- -	20 U	NA	NA	NA	NA	NA	20 U	NA	NA	21 U
2-Nitrophenol	ug/L	{ID}	{NLV}	2,500,000	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
3&4-Methylphenol	ug/L	- -	- -	- -	10 UJ	NA	NA	NA	NA	NA	10 UJ	NA	NA	10 UJ
3,3'-Dichlorobenzidine	ug/L	{ID}	{NLV}	3,110	20 U	NA	NA	NA	NA	NA	20 U	NA	NA	21 U
3-Nitroaniline	ug/L	- -	- -	- -	20 U	NA	NA	NA	NA	NA	20 U	NA	NA	21 U
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	20 U	NA	NA	NA	NA	NA	20 U	NA	NA	21 U
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
4-Chloro-3-Methylphenol	ug/L	{ID}	{NLV}	3,900,000	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
4-Chloroaniline	ug/L	- -	- -	- -	20 U	NA	NA	NA	NA	NA	20 U	NA	NA	21 U
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
4-Nitroaniline	ug/L	- -	- -	- -	20 U	NA	NA	NA	NA	NA	20 U	NA	NA	21 U
4-Nitrophenol	ug/L	- -	- -	- -	20 U	NA	NA	NA	NA	NA	20 U	NA	NA	21 U
Acenaphthene	ug/L	{ID}	4,200 {(S)}	4,240	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
Acenaphthylene	ug/L	{ID}	3,900 {(S)}	3,930	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
Acetophenone	ug/L	{ID}	6,100,000 {(S)}	6,100,000	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
Anthracene	ug/L	{ID}	43 {(S)}	43.4	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
Atrazine	ug/L	{ID}	{NLV}	70,000	5 U	NA	NA	NA	NA	NA	5 UJ	NA	NA	5.1 U
Benzaldehyde	ug/L	- -	- -	- -	5 UJ	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
Benzo(a)anthracene	ug/L	{ID}	{NLV}	9.4	1 U	NA	NA	NA	NA	NA	1 U	NA	NA	1 U
Benzo(a)pyrene	ug/L	{ID}	{NLV}	1.62	**2 U**	NA	NA	NA	NA	NA	**2 U**	NA	NA	**2.1 U**
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	1.5	**2 U**	NA	NA	NA	NA	NA	**2 U**	NA	NA	**2.1 U**
Benzo(g,h,i)perylene	ug/L	{ID}	{NLV}	0.26	**5 U**	NA	NA	NA	NA	NA	**5 U**	NA	NA	**5.1 U**
Benzo(k)fluoranthene	ug/L	{ID}	{NLV}	0.8	**5 U**	NA	NA	NA	NA	NA	**5 U**	NA	NA	**5.1 U**
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	210,000	17,200,000	1 U	NA	NA	NA	NA	NA	1 U	NA	NA	1 U
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	{NLV}	340	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
Butylbenzylphthalate	ug/L	{ID}	{NLV}	2,690	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
Caprolactam	ug/L	{NA}	{NLV}	5,250,000,000	10 U	NA	NA	NA	NA	NA	10 U	NA	NA	10 U
Carbazole	ug/L	{ID}	{NLV}	7,480	10 U	NA	NA	NA	NA	NA	10 U	NA	NA	10 U
Chrysene	ug/L	{ID}	{ID}	1.6	**5 U**	NA	NA	NA	NA	NA	**5 U**	NA	NA	**5.1 U**
Dibenzo(a,h)anthracene	ug/L	{ID}	{NLV}	2.49	2 U	NA	NA	NA	NA	NA	2 U	NA	NA	2.1 U
Dibenzofuran	ug/L	{ID}	10,000 {(S)}	10,000	4 U	NA	NA	NA	NA	NA	4 U	NA	NA	4.1 U
Diethylphthalate	ug/L	{NA}	{NLV}	1,080,000	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
Dimethylphthalate	ug/L	{NA}	{NLV}	4,190,000	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
Di-n-Butylphthalate	ug/L	{NA}	{NLV}	11,200	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
Di-n-Octylphthalate	ug/L	{ID}	{NLV}	3,000	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
Fluoranthene	ug/L	{ID}	210 {(S)}	206	2 U	NA	NA	NA	NA	NA	2 U	NA	NA	2.1 U
Fluorene	ug/L	{ID}	2,000 {(S)}	1,980	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
Hexachlorobenzene	ug/L	{ID}	3,000	6,200	1 U	NA	NA	NA	NA	NA	1 U	NA	NA	1 U

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Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	36-FP1 09/27/01	36-FP1 06/14/02	36-FP1 03/27/03	36-FP1 06/09/05	36-FP1 10/27/11	36-FP1 06/05/13	36-FP2 09/28/01	36-FP2 06/14/02	36-FP2 03/25/03	36-FP5 09/28/01
Hexachlorobutadiene	ug/L	{ID}	3,200 {(S)}	3,230	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
Hexachlorocyclopentadiene	ug/L	{ID}	420	1,800	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
Hexachloroethane	ug/L	{ID}	50,000 {(S)}	50,000	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{NLV}	0.022	**2 U**	NA	NA	NA	NA	NA	**2 U**	NA	NA	**2.1 U**
Isophorone	ug/L	{ID}	{NLV}	12,000,000	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
Methylphenols, Total	ug/L	{NA}	{NLV}	28,000,000	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
Naphthalene	ug/L	{NA}	31,000 {(S)}	31,000	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
Nitrobenzene	ug/L	{NA}	550,000	2,090,000	2 U	NA	NA	NA	NA	NA	2 U	NA	NA	2.1 U
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NLV}	9,890,000	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
N-Nitrosodiphenylamine	ug/L	{ID}	{NLV}	35,100	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
Pentachlorophenol	ug/L	{ID}	{NLV}	1,850,000	20 U	NA	NA	NA	NA	NA	20 U	NA	NA	21 U
Phenanthrene	ug/L	{ID}	1,000 {(S)}	1,000	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
Phenol	ug/L	{NA}	{NLV}	82,800,000	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
Pyrene	ug/L	{ID}	140 {(S)}	135	5 U	NA	NA	NA	NA	NA	5 U	NA	NA	5.1 U
PCB														
Aroclor-1016	ug/L	- -	- -	- -	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA	NA	0.11 U
Aroclor-1221	ug/L	- -	- -	- -	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA	NA	0.11 U
Aroclor-1232	ug/L	- -	- -	- -	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA	NA	0.11 U
Aroclor-1242	ug/L	- -	- -	- -	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA	NA	0.11 U
Aroclor-1248	ug/L	- -	- -	- -	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA	NA	0.11 U
Aroclor-1254	ug/L	- -	- -	- -	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA	NA	0.11 U
Aroclor-1260	ug/L	- -	- -	- -	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA	NA	0.11 U
Total PCBs	ug/L	{ID}	45 {(S)}	44.7	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA	NA	0.11 U
PCB-Dissolved														
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA	NA	0.1 U
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA	NA	0.1 U
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA	NA	0.1 U
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA	NA	0.1 U
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA	NA	0.1 U
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA	NA	0.1 U
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA	NA	0.1 U
Total PCBs (Dissolved)	ug/L	{ID}	45 {(S)}	44.7	0.1 U	NA	NA	NA	NA	NA	0.1 U	NA	NA	0.1 U
Inorganic														
Antimony	ug/L	{ID}	{NLV}	{NA}	1.2 U	1.2 U	1.2 U	NA	5 U	NA	1.2 U	1.2 U	1.2 U	NA
Arsenic	ug/L	{ID}	{NLV}	{NA}	58 J	33	54	NA	35	16	170 J	120	94	NA
Barium	ug/L	{ID}	{NLV}	{NA}	830 J	560	510	NA	525	NA	670 J	470	400 J	NA
Beryllium	ug/L	{ID}	{NLV}	{NA}	1 J	0.4 UJ	0.4 U	NA	1 U	NA	0.64 J	0.4 UJ	0.4 U	NA
Cadmium	ug/L	{ID}	{NLV}	{NA}	0.14 J	0.14 J	0.2 U	NA	0.5 U	NA	0.17 J	0.2 U	0.2 U	NA
Chromium Total	ug/L	- -	- -	- -	1.1	0.43 J	1.4	NA	5 U	NA	1.1	0.72	0.47 J	NA
Cobalt	ug/L	{ID}	{NLV}	{NA}	6.1	3.5	3.6	NA	5 U	NA	0.98	1	0.58	NA
Copper	ug/L	{ID}	{NLV}	{NA}	9.6	3 U	4.4	NA	5	NA	2.3	8.3	2.6	NA
Cyanide (total)	ug/L	{ID}	{NLV}	{NA}	1.6 J	NA	5 U	NA	5 U	NA	1.5 J	NA	5 U	5 U

Table G-2

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Groundwater Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	36-FP1 09/27/01	36-FP1 06/14/02	36-FP1 03/27/03	36-FP1 06/09/05	36-FP1 10/27/11	36-FP1 06/05/13	36-FP2 09/28/01	36-FP2 06/14/02	36-FP2 03/25/03	36-FP5 09/28/01
Lead	ug/L	{ID}	{NLV}	{NA}	0.43	0.47	0.57	NA	4	3 U	0.35 J	0.27 J	0.26 J	NA
Manganese	ug/L	{ID}	{NLV}	{NA}	1,700 J	1,300 J	840	NA	885	292	150 J	140 J	110	NA
Mercury	ug/L	{ID}	56 {(S)}	56	0.2 U	0.2 U	0.2 U	NA	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	ug/L	{ID}	{NLV}	{NA}	23	12	27	NA	44	NA	17	8.4	8.6	NA
Selenium	ug/L	{ID}	{NLV}	{NA}	1.4 U	1.4 U	1.9 J	NA	5 U	NA	1.4 U	1.4 U	1.6 U	NA
Silver	ug/L	{ID}	{NLV}	{NA}	0.4 U	0.4 U	0.4 U	NA	0.5 U	NA	0.4 U	0.4 U	0.4 U	NA
Thallium	ug/L	{ID}	{NLV}	{NA}	0.2 U	0.2 U	0.089 J	NA	2 U	NA	0.2 U	0.2 U	0.2 U	NA
Vanadium	ug/L	{ID}	{NLV}	{NA}	0.8 U	0.8 U	0.8 U	NA	4 U	NA	0.8 U	0.8 U	0.8 U	NA
Zinc	ug/L	{ID}	{NLV}	{NA}	30 J	21	22	NA	5 U	NA	30 J	24	19 U	NA
Miscellaneous														
Fluorine	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved														
Antimony (Dissolved)	ug/L	{ID}	{NLV}	{NA}	1.2 U	NA	NA	NA	NA	NA	1.2 U	1.2 U	NA	1.2 U
Arsenic (Dissolved)	ug/L	{ID}	{NLV}	{NA}	48	NA	NA	NA	NA	NA	120	120	NA	37 U
Barium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	620	NA	NA	NA	NA	NA	440	470	NA	310
Beryllium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.4 U	NA	NA	NA	NA	NA	0.4 U	0.4 UJ	NA	0.4 U
Cadmium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.2 U	NA	NA	NA	NA	NA	0.2 U	0.2 U	NA	0.2 U
Chromium Total (Dissolved)	ug/L	- -	- -	- -	0.6 U	NA	NA	NA	NA	NA	0.6 U	0.97	NA	0.6 U
Cobalt (Dissolved)	ug/L	{ID}	{NLV}	{NA}	4.4	NA	NA	NA	NA	NA	0.52	0.88	NA	0.22
Copper (Dissolved)	ug/L	{ID}	{NLV}	{NA}	2.9	NA	NA	NA	NA	NA	0.7	4.3	NA	0.6 U
Cyanide (dissolved)	ug/L	{ID}	{NLV}	{NA}	1.1 J	NA	NA	NA	NA	NA	1.6 J	NA	NA	5 U
Lead (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.4 U	NA	NA	NA	NA	NA	0.4 U	0.4 U	NA	0.4 U
Manganese (Dissolved)	ug/L	{ID}	{NLV}	{NA}	1,500 J	NA	NA	NA	NA	NA	110 J	150	NA	78
Mercury (Dissolved)	ug/L	- -	- -	- -	0.2 U	NA	NA	NA	NA	NA	0.2 U	0.2 U	NA	0.2 U
Nickel (Dissolved)	ug/L	{ID}	{NLV}	{NA}	16	NA	NA	NA	NA	NA	9.6	7.7	NA	6.4
Selenium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	2.8 U	NA	NA	NA	NA	NA	1.4 U	1.4 U	NA	2.9
Silver (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.4 UJ	NA	NA	NA	NA	NA	0.4 U	0.4 U	NA	0.4 U
Thallium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.2 U	NA	NA	NA	NA	NA	0.2 U	0.2 U	NA	0.2 U
Vanadium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	0.8 U	NA	NA	NA	NA	NA	0.8 U	0.8 U	NA	0.8 U
Zinc (Dissolved)	ug/L	{ID}	{NLV}	{NA}	42	NA	NA	NA	NA	NA	22 J	28	NA	15
Field Parameters														
Conductivity Field	mS/cm	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH Field	s.u.	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Parameters-Filtered														
Dissolved Oxygen, Field	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table G-2

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Groundwater Sample Analytical Results from Southeast Po
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	36-FP5 12/16/02	36-FP5 04/02/03	36-FP8 09/27/01	36-FP8 06/17/02	36-FP8 03/25/03	RFI-36-08 09/27/01	RFI-36-08 06/14/02	RFI-36-08 03/25/03	RFI-36-08 10/08/04	RFI-36-08 06/05/13
VOC														
1,1,1,2-Tetrachloroethane	ug/L	{ID}	96,000	1,100,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/L	{ID}	1,300,000 {(S)}	1,330,000	8.3	11	1.8	1	1 U	1 U	1 U	1 U	10 U	10 UY
1,1,2,2-Tetrachloroethane	ug/L	{ID}	77,000	2,970,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 UY
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	170,000 {(S)}	170,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	300 U	300 UY
1,1,2-Trichloroethane	ug/L	{NA}	110,000	4,420,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 UY
1,1-Dichloroethane	ug/L	380,000	2,300,000	5,060,000	11	11	1.1	1 U	1 U	2.1	1.9	1 U	10 U	10 UY
1,1-Dichloroethene	ug/L	97,000	1,300	2,250,000	0.91 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 UY
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	ug/L	{NA}	18,000	1,900,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	{NA}	300,000 {(S)}	300,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	20 U	20 UY
1,2,4-Trimethylbenzene	ug/L	56,000 {(S)}	56,000 {(S)}	55,890	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	{NA}	1,200 {(S)}	1,230	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 UJ	10 UY
1,2-Dibromoethane	ug/L	{ID}	15,000	4,200,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 UY
1,2-Dichlorobenzene	ug/L	{NA}	160,000 {(S)}	156,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 UY
1,2-Dichloroethane	ug/L	2,500,000	59,000	8,520,000	0.51 J	1 U	1 U	1 U	1 U	1 U	1 U	1.1	10 U	10 UY
1,2-Dichloropropane	ug/L	550,000	36,000	2,800,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 UY
1,3,5-Trimethylbenzene	ug/L	{ID}	61,000 {(S)}	61,150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/L	{ID}	41,000	111,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 UY
1,4-Dichlorobenzene	ug/L	{NA}	74,000 {(S)}	73,800	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 UY
2-Butanone	ug/L	{ID}	240,000,000 {(S)}	240,000,000	25 U	25 U	25 U	25 U	25 U	3.8 J	25 U	25 U	300 U	200 UY
2-Hexanone	ug/L	{NA}	8,700,000	16,000,000	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	500 U	500 UY
2-Methylnaphthalene	ug/L	{ID}	25,000 {(S)}	24,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	ug/L	{ID}	20,000,000 {(S)}	20,000,000	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	10 U	100 UY
Acetone	ug/L	15,000,000	1,000,000,000 {(D,S)}	1,000,000,000	25 U	25 U	25 U	25 U	25 U	8.5 J	25 U	25 U	300 U	200 UY
Acrylonitrile	ug/L	6,400,000	190,000	75,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/L	68,000	35,000	1,750,000	0.91 J	1 U	1 U	1 U	1 U	590 D	1,300 D	130 D	780	270 Y
Bromobenzene	ug/L	{ID}	390,000	413,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/L	{ID}	37,000	6,740,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 UY
Bromoform	ug/L	{ID}	3,100,000 {(S)}	3,100,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 UJ	10 UY
Bromomethane	ug/L	{ID}	9,000	14,500,000	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	20 UJ	20 UY
Carbon Disulfide	ug/L	13,000	550,000	1,190,000	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	50 UJ	50 UY
Carbon Tetrachloride	ug/L	{ID}	2,400	793,000	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 UY
Chlorobenzene	ug/L	160,000	470,000 {(S)}	472,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 UY
Chloroethane	ug/L	110,000	5,700,000 {(S)}	5,740,000	2.6	1.9	1 U	1 U	1 U	0.76 J	1 U	1 U	10 UJ	10 UY
Chloroform	ug/L	{ID}	180,000	7,920,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 UY
Chloromethane	ug/L	36,000	45,000	6,340,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	10 U	10 UY
cis-1,2-Dichloroethene	ug/L	530,000	210,000	3,500,000	0.6 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 UY
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 UY
Cyclohexane	ug/L	- -	- -	- -	5 U	5 U	4.8 J	5 U	5 U	44 J	5 U	5 U	20 J	30 Y

Table G-2

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Groundwater Sample Analytical Results from Southeast Po
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	36-FP5 12/16/02	36-FP5 04/02/03	36-FP8 09/27/01	36-FP8 06/17/02	36-FP8 03/25/03	RFI-36-08 09/27/01	RFI-36-08 06/14/02	RFI-36-08 03/25/03	RFI-36-08 10/08/04	RFI-36-08 06/05/13
Dibromochloromethane	ug/L	{ID}	110,000	2,600,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 UY
Dibromomethane	ug/L	{ID}	{ID}	11,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/L	{ID}	300,000 {(S)}	300,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 UJ	10 UY
Diethyl ether	ug/L	650,000	61,000,000 {(S)}	61,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/L	43,000	170,000 {(S)}	169,000	1 U	1 U	1 U	1 U	1 U	430 D	1,200 D	25	770	190 Y
Hexachloroethane	ug/L	{ID}	50,000 {(S)}	50,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	ug/L	29,000	56,000 {(S)}	56,000	5 U	5 U	5 U	5 U	5 U	22	37 J	5 U	20	10 UY
m&p-Xylene	ug/L	- -	- -	- -	2 U	2 U	2 U	2 U	2 U	2,000 D	2,100 D	240 D	1,590 J	300 Y
Methyl acetate	ug/L	- -	- -	- -	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	100 U	100 UY
Methyl tert-butyl ether	ug/L	{ID}	47,000,000 {(S)}	46,800,000	4.2 J	6.1	5 U	5 U	5 U	5 U	5 U	5 U	50 U	50 UY
Methylcyclohexane	ug/L	- -	- -	- -	1 U	1 U	3	1 U	1 UJ	150 D	64	28	90 J	200 UY
Methylene Chloride	ug/L	{ID}	1,400,000	17,000,000	5 U	5 U	5 U	5 UJ	5 U	5 U	5 UJ	5 U	10 J	50 UY
Naphthalene	ug/L	{NA}	31,000 {(S)}	31,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	50 UY
n-Butylbenzene	ug/L	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	ug/L	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	20 Y
o-Xylene	ug/L	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	750 D	1,200 D	100 D	910	50 Y
p-Isopropyltoluene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	ug/L	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/L	140,000	310,000 {(S)}	310,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 UY
tert-Butylbenzene	ug/L	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/L	{ID}	170,000	200,000	1 U	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U	10 U	10 UY
Tetrahydrofuran	ug/L	60,000	16,000,000	1,000,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/L	61,000	530,000 {(S)}	526,000	1 U	1 U	1 U	1 U	1 U	2,800 D	870 D	98 D	1,500	60 Y
trans-1,2-Dichloroethene	ug/L	230,000	200,000	6,300,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 UY
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 UY
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/L	{ID}	4,900	1,100,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 UY
Trichlorofluoromethane	ug/L	{ID}	1,100,000 {(S)}	1,100,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 UY
Vinyl Chloride	ug/L	33,000	13,000	2,760,000	1.2	1.4	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 UY
Xylenes (total)	ug/L	70,000	190,000 {(S)}	186,000	1 U	1 U	1 U	1 U	1 U	750	1,200	100	910	50
SVOC														
1,1'-Biphenyl	ug/L	- -	- -	- -	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	{ID}	{NLV}	1,200,000	NA	NA	R	NA	NA	5.6 U	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	{ID}	{NLV}	800,000	NA	NA	R	NA	NA	4.4 U	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	{ID}	{NLV}	4,500,000	NA	NA	R	NA	NA	11 U	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	{ID}	{NLV}	7,870,000	NA	NA	R	NA	NA	96.7	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	NA	NA	R	NA	NA	22 U	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	{ID}	{NLV}	270,000	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	{ID}	{ID}	6,740	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA

Table G-2

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Groundwater Sample Analytical Results from Southeast Po
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	36-FP5 12/16/02	36-FP5 04/02/03	36-FP8 09/27/01	36-FP8 06/17/02	36-FP8 03/25/03	RFI-36-08 09/27/01	RFI-36-08 06/14/02	RFI-36-08 03/25/03	RFI-36-08 10/08/04	RFI-36-08 06/05/13
2-Chlorophenol	ug/L	{ID}	1,100,000	22,000,000	NA	NA	R	NA	NA	5.6 U	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	{ID}	25,000 {(S)}	24,600	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
2-Methylphenol	ug/L	- -	- -	- -	NA	NA	R	NA	NA	20.5	NA	NA	NA	NA
2-Nitroaniline	ug/L	- -	- -	- -	NA	NA	5 U	NA	NA	22 U	NA	NA	NA	NA
2-Nitrophenol	ug/L	{ID}	{NLV}	2,500,000	NA	NA	R	NA	NA	5.6 U	NA	NA	NA	NA
3&4-Methylphenol	ug/L	- -	- -	- -	NA	NA	R	NA	NA	41.5 J	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	{ID}	{NLV}	3,110	NA	NA	20 U	NA	NA	22 U	NA	NA	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	NA	NA	20 U	NA	NA	22 U	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	NA	NA	R	NA	NA	22 U	NA	NA	NA	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
4-Chloro-3-Methylphenol	ug/L	{ID}	{NLV}	3,900,000	NA	NA	R	NA	NA	5.6 U	NA	NA	NA	NA
4-Chloroaniline	ug/L	- -	- -	- -	NA	NA	20 U	NA	NA	22 U	NA	NA	NA	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
4-Nitroaniline	ug/L	- -	- -	- -	NA	NA	20 U	NA	NA	22 U	NA	NA	NA	NA
4-Nitrophenol	ug/L	- -	- -	- -	NA	NA	R	NA	NA	22 U	NA	NA	NA	NA
Acenaphthene	ug/L	{ID}	4,200 {(S)}	4,240	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
Acenaphthylene	ug/L	{ID}	3,900 {(S)}	3,930	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
Acetophenone	ug/L	{ID}	6,100,000 {(S)}	6,100,000	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
Anthracene	ug/L	{ID}	43 {(S)}	43.4	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
Atrazine	ug/L	{ID}	{NLV}	70,000	NA	NA	5 U	NA	NA	5.6 UJ	NA	NA	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	NA	NA	5 UJ	NA	NA	5.6 U	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	{ID}	{NLV}	9.4	NA	NA	1 U	NA	NA	1.1 U	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	{ID}	{NLV}	1.62	NA	NA	**2 U**	NA	NA	**2.2 U**	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	1.5	NA	NA	**2 U**	NA	NA	**2.2 U**	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	{ID}	{NLV}	0.26	NA	NA	**5 U**	NA	NA	**5.6 U**	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	{ID}	{NLV}	0.8	NA	NA	**5 U**	NA	NA	**5.6 U**	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	210,000	17,200,000	NA	NA	1 U	NA	NA	1.1 U	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	{NLV}	340	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
Butylbenzylphthalate	ug/L	{ID}	{NLV}	2,690	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
Caprolactam	ug/L	{NA}	{NLV}	5,250,000,000	NA	NA	10 U	NA	NA	11 U	NA	NA	NA	NA
Carbazole	ug/L	{ID}	{NLV}	7,480	NA	NA	10 U	NA	NA	11 U	NA	NA	NA	NA
Chrysene	ug/L	{ID}	{ID}	1.6	NA	NA	**5 U**	NA	NA	**5.6 U**	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/L	{ID}	{NLV}	2.49	NA	NA	2 U	NA	NA	2.2 U	NA	NA	NA	NA
Dibenzofuran	ug/L	{ID}	10,000 {(S)}	10,000	NA	NA	4 U	NA	NA	4.4 U	NA	NA	NA	NA
Diethylphthalate	ug/L	{NA}	{NLV}	1,080,000	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
Dimethylphthalate	ug/L	{NA}	{NLV}	4,190,000	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
Di-n-Butylphthalate	ug/L	{NA}	{NLV}	11,200	NA	NA	1.95 J	NA	NA	5.6 U	NA	NA	NA	NA
Di-n-Octylphthalate	ug/L	{ID}	{NLV}	3,000	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
Fluoranthene	ug/L	{ID}	210 {(S)}	206	NA	NA	2 U	NA	NA	2.2 U	NA	NA	NA	NA
Fluorene	ug/L	{ID}	2,000 {(S)}	1,980	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
Hexachlorobenzene	ug/L	{ID}	3,000	6,200	NA	NA	1 U	NA	NA	1.1 U	NA	NA	NA	NA

Table G-2

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Groundwater Sample Analytical Results from Southeast Po
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	36-FP5 12/16/02	36-FP5 04/02/03	36-FP8 09/27/01	36-FP8 06/17/02	36-FP8 03/25/03	RFI-36-08 09/27/01	RFI-36-08 06/14/02	RFI-36-08 03/25/03	RFI-36-08 10/08/04	RFI-36-08 06/05/13
Hexachlorobutadiene	ug/L	{ID}	3,200 {(S)}	3,230	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	{ID}	420	1,800	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
Hexachloroethane	ug/L	{ID}	50,000 {(S)}	50,000	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{NLV}	0.022	NA	NA	**2 U**	NA	NA	**2.2 U**	NA	NA	NA	NA
Isophorone	ug/L	{ID}	{NLV}	12,000,000	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
Methylphenols, Total	ug/L	{NA}	{NLV}	28,000,000	NA	NA	R	NA	NA	20.5	NA	NA	NA	NA
Naphthalene	ug/L	{NA}	31,000 {(S)}	31,000	NA	NA	5 U	NA	NA	10.8	NA	NA	NA	NA
Nitrobenzene	ug/L	{NA}	550,000	2,090,000	NA	NA	2 U	NA	NA	2.2 U	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NLV}	9,890,000	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	{ID}	{NLV}	35,100	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
Pentachlorophenol	ug/L	{ID}	{NLV}	1,850,000	NA	NA	R	NA	NA	22 U	NA	NA	NA	NA
Phenanthrene	ug/L	{ID}	1,000 {(S)}	1,000	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
Phenol	ug/L	{NA}	{NLV}	82,800,000	NA	NA	R	NA	NA	5.6 U	NA	NA	NA	NA
Pyrene	ug/L	{ID}	140 {(S)}	135	NA	NA	5 U	NA	NA	5.6 U	NA	NA	NA	NA
PCB														
Aroclor-1016	ug/L	- -	- -	- -	NA	NA	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA
Aroclor-1221	ug/L	- -	- -	- -	NA	NA	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA
Aroclor-1232	ug/L	- -	- -	- -	NA	NA	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA
Aroclor-1242	ug/L	- -	- -	- -	NA	NA	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA
Aroclor-1248	ug/L	- -	- -	- -	NA	NA	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA
Aroclor-1254	ug/L	- -	- -	- -	NA	NA	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA
Aroclor-1260	ug/L	- -	- -	- -	NA	NA	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA
Total PCBs	ug/L	{ID}	45 {(S)}	44.7	NA	NA	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA
PCB-Dissolved														
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	NA	NA	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	NA	NA	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	NA	NA	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	NA	NA	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	NA	NA	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	NA	NA	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	NA	NA	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA
Total PCBs (Dissolved)	ug/L	{ID}	45 {(S)}	44.7	NA	NA	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA
Inorganic														
Antimony	ug/L	{ID}	{NLV}	{NA}	NA	NA	1.2 U	1.2 U	0.59 J	NA	NA	1.2 U	NA	NA
Arsenic	ug/L	{ID}	{NLV}	{NA}	NA	NA	14 J	2.3	1 U	NA	NA	13	NA	NA
Barium	ug/L	{ID}	{NLV}	{NA}	NA	NA	250 J	80	510 J	NA	NA	93 J	NA	NA
Beryllium	ug/L	{ID}	{NLV}	{NA}	NA	NA	2.3 J	0.4 UJ	0.4 U	NA	NA	0.4 U	NA	NA
Cadmium	ug/L	{ID}	{NLV}	{NA}	NA	NA	1.2 J	0.079 J	2.5	NA	NA	0.2 U	NA	NA
Chromium Total	ug/L	- -	- -	- -	NA	NA	1.2	0.29 J	3.8	NA	NA	0.51 J	NA	NA
Cobalt	ug/L	{ID}	{NLV}	{NA}	NA	NA	4.2	2	3.3	NA	NA	1	NA	NA
Copper	ug/L	{ID}	{NLV}	{NA}	NA	NA	5	6.8	7	NA	NA	2.9	NA	NA
Cyanide (total)	ug/L	{ID}	{NLV}	{NA}	NA	NA	30	160	68	5 U	NA	5 U	NA	NA

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RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	36-FP5 12/16/02	36-FP5 04/02/03	36-FP8 09/27/01	36-FP8 06/17/02	36-FP8 03/25/03	RFI-36-08 09/27/01	RFI-36-08 06/14/02	RFI-36-08 03/25/03	RFI-36-08 10/08/04	RFI-36-08 06/05/13
Lead	ug/L	{ID}	{NLV}	{NA}	NA	NA	0.51	0.14 J	0.2 J	NA	NA	0.4 J	NA	NA
Manganese	ug/L	{ID}	{NLV}	{NA}	NA	NA	1,300 J	290 J	1,200	NA	NA	570	NA	NA
Mercury	ug/L	{ID}	56 {(S)}	56	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	NA	NA
Nickel	ug/L	{ID}	{NLV}	{NA}	NA	NA	15	2.5	14	NA	NA	4.8	NA	NA
Selenium	ug/L	{ID}	{NLV}	{NA}	NA	NA	1.4 U	1.4 U	1.6 U	NA	NA	1.6 U	NA	NA
Silver	ug/L	{ID}	{NLV}	{NA}	NA	NA	0.4 U	0.4 U	0.13 J	NA	NA	0.4 U	NA	NA
Thallium	ug/L	{ID}	{NLV}	{NA}	NA	NA	0.2 U	0.2 U	0.095 J	NA	NA	0.2 U	NA	NA
Vanadium	ug/L	{ID}	{NLV}	{NA}	NA	NA	0.8 U	0.8 U	0.8 U	NA	NA	0.8 U	NA	NA
Zinc	ug/L	{ID}	{NLV}	{NA}	NA	NA	91 J	11	18 U	NA	NA	19 U	NA	NA
Miscellaneous														
Fluorine	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved														
Antimony (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	1.2 U	NA	NA	1.2 U	NA	NA	NA	NA
Arsenic (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	11	NA	NA	39	NA	NA	NA	NA
Barium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	180	NA	NA	300	NA	NA	NA	NA
Beryllium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	0.4 U	NA	NA	0.4 U	NA	NA	NA	NA
Cadmium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	0.78	NA	NA	0.2 U	NA	NA	NA	NA
Chromium Total (Dissolved)	ug/L	- -	- -	- -	NA	NA	0.6 U	NA	NA	0.6 U	NA	NA	NA	NA
Cobalt (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	2.8	NA	NA	0.71	NA	NA	NA	NA
Copper (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	1.6	NA	NA	0.89	NA	NA	NA	NA
Cyanide (dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	28	NA	NA	1.6 J	NA	NA	NA	NA
Lead (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	0.4 U	NA	NA	0.4 U	NA	NA	NA	NA
Manganese (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	1,100 J	NA	NA	360 J	NA	NA	NA	NA
Mercury (Dissolved)	ug/L	- -	- -	- -	NA	NA	0.2 U	NA	NA	0.2 U	NA	NA	NA	NA
Nickel (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	9	NA	NA	4.7	NA	NA	NA	NA
Selenium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	5.8 J	NA	NA	3.3 J	NA	NA	NA	NA
Silver (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	0.4 UJ	NA	NA	0.4 UJ	NA	NA	NA	NA
Thallium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	0.2 U	NA	NA	0.2 U	NA	NA	NA	NA
Vanadium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	0.8 U	NA	NA	0.8 U	NA	NA	NA	NA
Zinc (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	11	NA	NA	12	NA	NA	NA	NA
Field Parameters														
Conductivity Field	mS/cm	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH Field	s.u.	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Parameters-Filtered														
Dissolved Oxygen, Field	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table G-2

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Groundwater Sample Analytical Results from Southeast Po
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	RFI-36-29 10/03/01	RFI-36-29R 02/26/02	RFI-36-29R 06/20/02	RFI-36-29R 04/03/03	RFI-36-31 10/05/01	RFI-36-37 09/28/01	RFI-36-37 06/22/02	RFI-36-37 06/10/05	RFI-36-37 06/26/07
VOC													
1,1,1,2-Tetrachloroethane	ug/L	{ID}	96,000	1,100,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/L	{ID}	1,300,000 {(S)}	1,330,000	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	0.6 J	0.1 J
1,1,2,2-Tetrachloroethane	ug/L	{ID}	77,000	2,970,000	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	170,000 {(S)}	170,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	30 U	30 UJ
1,1,2-Trichloroethane	ug/L	{NA}	110,000	4,420,000	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	380,000	2,300,000	5,060,000	49	24	18 J	81	6.1	220 D	53	1	1 U
1,1-Dichloroethene	ug/L	97,000	1,300	2,250,000	1 U	1 U	1 U	1 U	2.1	5.7	1.5	2	1 U
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	ug/L	{NA}	18,000	1,900,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	{NA}	300,000 {(S)}	300,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	2 U	2 U
1,2,4-Trimethylbenzene	ug/L	56,000 {(S)}	56,000 {(S)}	55,890	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	{NA}	1,200 {(S)}	1,230	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 UJ
1,2-Dibromoethane	ug/L	{ID}	15,000	4,200,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	ug/L	{NA}	160,000 {(S)}	156,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/L	2,500,000	59,000	8,520,000	2.1	2	1.7	6.9	1 U	4	1.7	1 U	1 U
1,2-Dichloropropane	ug/L	550,000	36,000	2,800,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/L	{ID}	61,000 {(S)}	61,150	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/L	{ID}	41,000	111,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	ug/L	{NA}	74,000 {(S)}	73,800	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	ug/L	{ID}	240,000,000 {(S)}	240,000,000	1.2 J	25 U	2.7 J	25 U	25 U	25 U	2.6 J	30 U	20 U
2-Hexanone	ug/L	{NA}	8,700,000	16,000,000	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Methylnaphthalene	ug/L	{ID}	25,000 {(S)}	24,600	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	ug/L	{ID}	20,000,000 {(S)}	20,000,000	50 U	50 U	50 U	50 U	50 U	50 U	50 U	1 U	10 U
Acetone	ug/L	15,000,000	1,000,000,000 {(D,S)}	1,000,000,000	25 U	25 U	25 U	25 U	25 U	25 U	25 U	30 U	R
Acrylonitrile	ug/L	6,400,000	190,000	75,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/L	68,000	35,000	1,750,000	87	45 J	50 J	360 D	1 U	3.2	1 U	9	9
Bromobenzene	ug/L	{ID}	390,000	413,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/L	{ID}	37,000	6,740,000	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/L	{ID}	3,100,000 {(S)}	3,100,000	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/L	{ID}	9,000	14,500,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U
Carbon Disulfide	ug/L	13,000	550,000	1,190,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	ug/L	{ID}	2,400	793,000	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/L	160,000	470,000 {(S)}	472,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/L	110,000	5,700,000 {(S)}	5,740,000	1.3	40	26 J	93	1 U	180 D	100	5 J	1 UJ
Chloroform	ug/L	{ID}	180,000	7,920,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	ug/L	36,000	45,000	6,340,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ
cis-1,2-Dichloroethene	ug/L	530,000	210,000	3,500,000	7.2	5.8 J	4.3 J	18	1 U	2.8	1	0.4 J	1 U
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	ug/L	- -	- -	- -	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 UJ

Table G-2

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Groundwater Sample Analytical Results from Southeast Po
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	RFI-36-29 10/03/01	RFI-36-29R 02/26/02	RFI-36-29R 06/20/02	RFI-36-29R 04/03/03	RFI-36-31 10/05/01	RFI-36-37 09/28/01	RFI-36-37 06/22/02	RFI-36-37 06/10/05	RFI-36-37 06/26/07
Dibromochloromethane	ug/L	{ID}	110,000	2,600,000	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
Dibromomethane	ug/L	{ID}	{ID}	11,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/L	{ID}	300,000 {(S)}	300,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	R
Diethyl ether	ug/L	650,000	61,000,000 {(S)}	61,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/L	43,000	170,000 {(S)}	169,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachloroethane	ug/L	{ID}	50,000 {(S)}	50,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	ug/L	29,000	56,000 {(S)}	56,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
m&p-Xylene	ug/L	- -	- -	- -	2 U	0.8 J	2 U	2 U	2 U	2 U	2 U	1 U	0.3 J
Methyl acetate	ug/L	- -	- -	- -	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	10 U	10 U
Methyl tert-butyl ether	ug/L	{ID}	47,000,000 {(S)}	46,800,000	15	7.1 J	5.7	12	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	ug/L	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U	20 U	20 U
Methylene Chloride	ug/L	{ID}	1,400,000	17,000,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	ug/L	{NA}	31,000 {(S)}	31,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/L	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	ug/L	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	ug/L	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
p-Isopropyltoluene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	ug/L	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/L	140,000	310,000 {(S)}	310,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/L	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/L	{ID}	170,000	200,000	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U
Tetrahydrofuran	ug/L	60,000	16,000,000	1,000,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/L	61,000	530,000 {(S)}	526,000	1.7 U	2.6 J	0.57 J	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/L	230,000	200,000	6,300,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/L	{ID}	4,900	1,100,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	ug/L	{ID}	1,100,000 {(S)}	1,100,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ
Vinyl Chloride	ug/L	33,000	13,000	2,760,000	4	58	29 J	78 D	1 U	2.7	0.56 J	1 U	1 UJ
Xylenes (total)	ug/L	70,000	190,000 {(S)}	186,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SVOC													
1,1'-Biphenyl	ug/L	- -	- -	- -	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	{ID}	{NLV}	1,200,000	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	{ID}	{NLV}	800,000	NA	4 U	NA	NA	4 U	4.2 U	NA	NA	NA
2,4-Dichlorophenol	ug/L	{ID}	{NLV}	4,500,000	NA	10 U	NA	NA	10 U	11 U	NA	NA	NA
2,4-Dimethylphenol	ug/L	{ID}	{NLV}	7,870,000	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	NA	20 U	NA	NA	20 U	21 U	NA	NA	NA
2,4-Dinitrotoluene	ug/L	{ID}	{NLV}	270,000	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
2-Chloronaphthalene	ug/L	{ID}	{ID}	6,740	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA

Table G-2

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RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	RFI-36-29 10/03/01	RFI-36-29R 02/26/02	RFI-36-29R 06/20/02	RFI-36-29R 04/03/03	RFI-36-31 10/05/01	RFI-36-37 09/28/01	RFI-36-37 06/22/02	RFI-36-37 06/10/05	RFI-36-37 06/26/07
2-Chlorophenol	ug/L	{ID}	1,100,000	22,000,000	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
2-Methylnaphthalene	ug/L	{ID}	25,000 {(S)}	24,600	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
2-Methylphenol	ug/L	- -	- -	- -	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
2-Nitroaniline	ug/L	- -	- -	- -	NA	20 U	NA	NA	20 U	21 U	NA	NA	NA
2-Nitrophenol	ug/L	{ID}	{NLV}	2,500,000	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
3&4-Methylphenol	ug/L	- -	- -	- -	NA	10 UJ	NA	NA	10 UJ	11 UJ	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	{ID}	{NLV}	3,110	NA	20 UJ	NA	NA	20 U	21 U	NA	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	NA	20 U	NA	NA	20 U	21 U	NA	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	NA	20 U	NA	NA	20 U	21 U	NA	NA	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
4-Chloro-3-Methylphenol	ug/L	{ID}	{NLV}	3,900,000	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
4-Chloroaniline	ug/L	- -	- -	- -	NA	20 U	NA	NA	20 U	21 U	NA	NA	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
4-Nitroaniline	ug/L	- -	- -	- -	NA	20 U	NA	NA	20 U	21 U	NA	NA	NA
4-Nitrophenol	ug/L	- -	- -	- -	NA	20 U	NA	NA	20 U	21 U	NA	NA	NA
Acenaphthene	ug/L	{ID}	4,200 {(S)}	4,240	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
Acenaphthylene	ug/L	{ID}	3,900 {(S)}	3,930	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
Acetophenone	ug/L	{ID}	6,100,000 {(S)}	6,100,000	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
Anthracene	ug/L	{ID}	43 {(S)}	43.4	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
Atrazine	ug/L	{ID}	{NLV}	70,000	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	NA	5 U	NA	NA	5 U	5.3 UJ	NA	NA	NA
Benzo(a)anthracene	ug/L	{ID}	{NLV}	9.4	NA	1 UJ	NA	NA	1 U	1.1 U	NA	NA	NA
Benzo(a)pyrene	ug/L	{ID}	{NLV}	1.62	NA	0.55 J	NA	NA	**2 U**	**2.1 U**	NA	NA	NA
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	1.5	NA	**2 UJ**	NA	NA	**2 U**	**2.1 U**	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	{ID}	{NLV}	0.26	NA	**5 UJ**	NA	NA	**5 U**	**5.3 U**	NA	NA	NA
Benzo(k)fluoranthene	ug/L	{ID}	{NLV}	0.8	NA	0.72 J	NA	NA	**5 U**	**5.3 U**	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	210,000	17,200,000	NA	1 U	NA	NA	1 U	1.1 U	NA	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	{NLV}	340	NA	5 UJ	NA	NA	5 U	5.3 U	NA	NA	NA
Butylbenzylphthalate	ug/L	{ID}	{NLV}	2,690	NA	5 UJ	NA	NA	5 U	5.3 U	NA	NA	NA
Caprolactam	ug/L	{NA}	{NLV}	5,250,000,000	NA	10 U	NA	NA	10 U	11 U	NA	NA	NA
Carbazole	ug/L	{ID}	{NLV}	7,480	NA	10 U	NA	NA	10 U	11 U	NA	NA	NA
Chrysene	ug/L	{ID}	{ID}	1.6	NA	**5 UJ**	NA	NA	**5 U**	**5.3 U**	NA	NA	NA
Dibenzo(a,h)anthracene	ug/L	{ID}	{NLV}	2.49	NA	2 UJ	NA	NA	2 U	2.1 U	NA	NA	NA
Dibenzofuran	ug/L	{ID}	10,000 {(S)}	10,000	NA	4 U	NA	NA	4 U	4.2 U	NA	NA	NA
Diethylphthalate	ug/L	{NA}	{NLV}	1,080,000	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
Dimethylphthalate	ug/L	{NA}	{NLV}	4,190,000	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
Di-n-Butylphthalate	ug/L	{NA}	{NLV}	11,200	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
Di-n-Octylphthalate	ug/L	{ID}	{NLV}	3,000	NA	5 UJ	NA	NA	5 U	5.3 U	NA	NA	NA
Fluoranthene	ug/L	{ID}	210 {(S)}	206	NA	2 U	NA	NA	2 U	2.1 U	NA	NA	NA
Fluorene	ug/L	{ID}	2,000 {(S)}	1,980	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
Hexachlorobenzene	ug/L	{ID}	3,000	6,200	NA	1 U	NA	NA	1 U	1.1 U	NA	NA	NA

Table G-2

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Summary of Groundwater Sample Analytical Results from Southeast Po
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	RFI-36-29 10/03/01	RFI-36-29R 02/26/02	RFI-36-29R 06/20/02	RFI-36-29R 04/03/03	RFI-36-31 10/05/01	RFI-36-37 09/28/01	RFI-36-37 06/22/02	RFI-36-37 06/10/05	RFI-36-37 06/26/07
Hexachlorobutadiene	ug/L	{ID}	3,200 {(S)}	3,230	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	{ID}	420	1,800	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
Hexachloroethane	ug/L	{ID}	50,000 {(S)}	50,000	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{NLV}	0.022	NA	**2 UJ**	NA	NA	**2 U**	**2.1 U**	NA	NA	NA
Isophorone	ug/L	{ID}	{NLV}	12,000,000	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
Methylphenols, Total	ug/L	{NA}	{NLV}	28,000,000	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
Naphthalene	ug/L	{NA}	31,000 {(S)}	31,000	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
Nitrobenzene	ug/L	{NA}	550,000	2,090,000	NA	2 U	NA	NA	2 U	2.1 U	NA	NA	NA
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NLV}	9,890,000	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	{ID}	{NLV}	35,100	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
Pentachlorophenol	ug/L	{ID}	{NLV}	1,850,000	NA	20 U	NA	NA	20 U	21 U	NA	NA	NA
Phenanthrene	ug/L	{ID}	1,000 {(S)}	1,000	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
Phenol	ug/L	{NA}	{NLV}	82,800,000	NA	5 U	NA	NA	5 U	5.3 U	NA	NA	NA
Pyrene	ug/L	{ID}	140 {(S)}	135	NA	5 UJ	NA	NA	5 U	5.3 U	NA	NA	NA
PCB													
Aroclor-1016	ug/L	- -	- -	- -	NA	0.1 U	NA	NA	0.1 U	0.11 U	NA	NA	NA
Aroclor-1221	ug/L	- -	- -	- -	NA	0.1 U	NA	NA	0.1 U	0.11 U	NA	NA	NA
Aroclor-1232	ug/L	- -	- -	- -	NA	0.1 U	NA	NA	0.1 U	0.11 U	NA	NA	NA
Aroclor-1242	ug/L	- -	- -	- -	NA	0.1 U	NA	NA	0.1 U	0.11 U	NA	NA	NA
Aroclor-1248	ug/L	- -	- -	- -	NA	0.1 U	NA	NA	0.1 U	0.11 U	NA	NA	NA
Aroclor-1254	ug/L	- -	- -	- -	NA	0.1 U	NA	NA	0.1 U	0.11 U	NA	NA	NA
Aroclor-1260	ug/L	- -	- -	- -	NA	0.1 U	NA	NA	0.1 U	0.11 U	NA	NA	NA
Total PCBs	ug/L	{ID}	45 {(S)}	44.7	NA	0.1 U	NA	NA	0.1 U	0.11 U	NA	NA	NA
PCB-Dissolved													
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	NA	0.1 U	NA	NA	0.1 U	0.11 U	NA	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	NA	0.1 U	NA	NA	0.1 U	0.11 U	NA	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	NA	0.1 U	NA	NA	0.1 U	0.11 U	NA	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	NA	0.1 U	NA	NA	0.1 U	0.11 U	NA	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	NA	0.1 U	NA	NA	0.1 U	0.11 U	NA	NA	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	NA	0.1 U	NA	NA	0.1 U	0.11 U	NA	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	NA	0.1 U	NA	NA	0.1 U	0.11 U	NA	NA	NA
Total PCBs (Dissolved)	ug/L	{ID}	45 {(S)}	44.7	NA	0.1 U	NA	NA	0.1 U	0.11 U	NA	NA	NA
Inorganic													
Antimony	ug/L	{ID}	{NLV}	{NA}	NA	NA	1 J	0.39 J	NA	NA	NA	NA	NA
Arsenic	ug/L	{ID}	{NLV}	{NA}	NA	NA	85	140	NA	NA	NA	NA	NA
Barium	ug/L	{ID}	{NLV}	{NA}	NA	NA	150	180	NA	NA	NA	NA	NA
Beryllium	ug/L	{ID}	{NLV}	{NA}	NA	NA	0.4 U	0.4 U	NA	NA	NA	NA	NA
Cadmium	ug/L	{ID}	{NLV}	{NA}	NA	NA	0.25	0.2 U	NA	NA	NA	NA	NA
Chromium Total	ug/L	- -	- -	- -	NA	NA	1.7	1	NA	NA	NA	NA	NA
Cobalt	ug/L	{ID}	{NLV}	{NA}	NA	NA	1.4	2.1	NA	NA	NA	NA	NA
Copper	ug/L	{ID}	{NLV}	{NA}	NA	NA	8.9	5.1	NA	NA	NA	NA	NA
Cyanide (total)	ug/L	{ID}	{NLV}	{NA}	NA	5 U	5 U	5 U	5 U	1.4 J	NA	NA	NA

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Lead	ug/L	{ID}	{NLV}	{NA}	NA	NA	1.9	1.3	NA	NA	NA	NA	NA
Manganese	ug/L	{ID}	{NLV}	{NA}	NA	NA	120	100 J	NA	NA	NA	NA	NA
Mercury	ug/L	{ID}	56 {(S)}	56	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA
Nickel	ug/L	{ID}	{NLV}	{NA}	NA	NA	13	13	NA	NA	NA	NA	NA
Selenium	ug/L	{ID}	{NLV}	{NA}	NA	NA	0.69 J	1.6 U	NA	NA	NA	NA	NA
Silver	ug/L	{ID}	{NLV}	{NA}	NA	NA	0.27 J	0.4 U	NA	NA	NA	NA	NA
Thallium	ug/L	{ID}	{NLV}	{NA}	NA	NA	0.19 J	0.29	NA	NA	NA	NA	NA
Vanadium	ug/L	{ID}	{NLV}	{NA}	NA	NA	1	1.3	NA	NA	NA	NA	NA
Zinc	ug/L	{ID}	{NLV}	{NA}	NA	NA	89 J	15	NA	NA	NA	NA	NA
Miscellaneous													
Fluorine	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved													
Antimony (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	1.2 U	NA	1.2 U	1.2 U	1.2 U	NA	NA	NA
Arsenic (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	79	NA	50	4.7	3.1 U	NA	NA	NA
Barium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	150	NA	160	R	210	NA	NA	NA
Beryllium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	14 J	NA	0.4 U	0.4 UJ	0.4 U	NA	NA	NA
Cadmium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	0.99 J	NA	0.2 U	0.2 U	0.2 U	NA	NA	NA
Chromium Total (Dissolved)	ug/L	- -	- -	- -	NA	13	NA	6.5	0.6 UJ	0.6 U	NA	NA	NA
Cobalt (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	1.6	NA	1.5	1.2	0.93	NA	NA	NA
Copper (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	4.3 J	NA	1.4	6 J	0.6 U	NA	NA	NA
Cyanide (dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	5 U	NA	5 U	5 U	5 U	NA	NA	NA
Lead (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	0.47	NA	0.18 J	0.4 U	0.4 U	NA	NA	NA
Manganese (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	110	NA	86	710	380	NA	NA	NA
Mercury (Dissolved)	ug/L	- -	- -	- -	NA	0.2 U	NA	0.2 U	0.2 U	0.2 U	NA	NA	NA
Nickel (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	15	NA	9.7	5.3	6.4	NA	NA	NA
Selenium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	1.5 J	NA	1.6 U	1.4 U	7.1	NA	NA	NA
Silver (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	0.52 J	NA	0.15 J	0.4 UJ	0.4 U	NA	NA	NA
Thallium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	0.63	NA	0.2 U	0.2 U	0.2 U	NA	NA	NA
Vanadium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	1.5 J	NA	1.7	0.8 U	0.8 U	NA	NA	NA
Zinc (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	19	NA	11	8 J	14	NA	NA	NA
Field Parameters													
Conductivity Field	mS/cm	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH Field	s.u.	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Parameters-Filtered													
Dissolved Oxygen, Field	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table G-2

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Groundwater Sample Analytical Results from Southeast Por
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	RFI-36-37 10/30/07	RFI-36-37 09/18/08	RFI-36-37 09/25/09	RFI-36-37 10/15/10	RFI-36-37 11/14/12	RFI-36-37 06/07/13	RFI-36-43 02/26/02
VOC											
1,1,1,2-Tetrachloroethane	ug/L	{ID}	96,000	1,100,000	NA	NA	NA	1 U	NA	NA	NA
1,1,1-Trichloroethane	ug/L	{ID}	1,300,000 {(S)}	1,330,000	1 U	1 U	1 U	1 U	1 U	1 U	1,000 U
1,1,2,2-Tetrachloroethane	ug/L	{ID}	77,000	2,970,000	1 U	1 U	1 U	1 U	1 U	1 U	1,000 U
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	170,000 {(S)}	170,000	30 U	30 U	30 U	NA	30 U	30 U	1,000 U
1,1,2-Trichloroethane	ug/L	{NA}	110,000	4,420,000	1 U	1 U	1 U	1 U	1 U	1 U	1,000 U
1,1-Dichloroethane	ug/L	380,000	2,300,000	5,060,000	1 U	1 U	1 U	1 U	12	8	1,000 U
1,1-Dichloroethene	ug/L	97,000	1,300	2,250,000	1 U	1 U	1 U	1 U	1 U	1 U	1,000 U
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	NA	NA	NA	5 U	NA	NA	NA
1,2,3-Trichloropropane	ug/L	{NA}	18,000	1,900,000	NA	NA	NA	1 U	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	NA	NA	NA	1 U	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	{NA}	300,000 {(S)}	300,000	2 U	2 U	2 U	5 U	2 U	2 U	5,000 U
1,2,4-Trimethylbenzene	ug/L	56,000 {(S)}	56,000 {(S)}	55,890	NA	NA	NA	1 U	NA	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	{NA}	1,200 {(S)}	1,230	1 U	1 U	1 U	5 U	1 U	1 U	1,000 U
1,2-Dibromoethane	ug/L	{ID}	15,000	4,200,000	1 U	1 U	1 U	1 U	1 U	1 U	1,000 U
1,2-Dichlorobenzene	ug/L	{NA}	160,000 {(S)}	156,000	1 U	1 U	1 U	1 U	1 U	1 U	1,000 U
1,2-Dichloroethane	ug/L	2,500,000	59,000	8,520,000	1	1	1 U	3 U	1 U	1 U	1,000 U
1,2-Dichloropropane	ug/L	550,000	36,000	2,800,000	1 U	1 U	1 U	1 U	1 U	1 U	1,000 U
1,3,5-Trimethylbenzene	ug/L	{ID}	61,000 {(S)}	61,150	NA	NA	NA	1 U	NA	NA	NA
1,3-Dichlorobenzene	ug/L	{ID}	41,000	111,000	1 U	1 U	0.2	1 U	1 U	1 U	1,000 U
1,4-Dichlorobenzene	ug/L	{NA}	74,000 {(S)}	73,800	1 U	1 U	1 U	1 U	1 U	1 U	1,000 U
2-Butanone	ug/L	{ID}	240,000,000 {(S)}	240,000,000	20 U	20 U	20 U	30 U	20 U	20 U	25,000 U
2-Hexanone	ug/L	{NA}	8,700,000	16,000,000	50 U	50 UJ	50 U	50 U	50 U	50 U	50,000 U
2-Methylnaphthalene	ug/L	{ID}	25,000 {(S)}	24,600	NA	NA	NA	5 U	NA	NA	NA
4-Methyl-2-pentanone	ug/L	{ID}	20,000,000 {(S)}	20,000,000	10 U	10 U	10 U	50 U	10 U	10 U	50,000 U
Acetone	ug/L	15,000,000	1,000,000,000 {(D,S)}	1,000,000,000	20 U	20 U	20 U	50 U	20 U	20 U	25,000 U
Acrylonitrile	ug/L	6,400,000	190,000	75,000,000	NA	NA	NA	2 U	NA	NA	NA
Benzene	ug/L	68,000	35,000	1,750,000	13	15	15	48	2	11	6,000 D
Bromobenzene	ug/L	{ID}	390,000	413,000	NA	NA	NA	1 U	NA	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	NA	NA	NA	1 U	NA	NA	NA
Bromodichloromethane	ug/L	{ID}	37,000	6,740,000	1 U	1 U	1 U	1 U	1 U	1 U	1,000 U
Bromoform	ug/L	{ID}	3,100,000 {(S)}	3,100,000	1 U	1 U	1 U	1 U	1 U	1 U	1,000 U
Bromomethane	ug/L	{ID}	9,000	14,500,000	2 U	2 UJ	2 U	5 U	2 U	2 U	1,000 U
Carbon Disulfide	ug/L	13,000	550,000	1,190,000	5 U	5 U	5 U	5 U	5 U	5 U	5,000 U
Carbon Tetrachloride	ug/L	{ID}	2,400	793,000	1 U	1 U	1 U	1 U	1 U	1 U	1,000 U
Chlorobenzene	ug/L	160,000	470,000 {(S)}	472,000	1 U	1 U	1 U	1 U	1 U	1 U	1,000 U
Chloroethane	ug/L	110,000	5,700,000 {(S)}	5,740,000	1 U	1 UJ	1 U	5 U	128	26	1,000 U
Chloroform	ug/L	{ID}	180,000	7,920,000	1 U	1 U	1 U	1 U	1 U	1 U	1,000 U
Chloromethane	ug/L	36,000	45,000	6,340,000	1 U	1 U	1 U	5 U	1 U	1 U	1,000 U
cis-1,2-Dichloroethene	ug/L	530,000	210,000	3,500,000	1 U	1 U	1 U	1 U	1 U	1 U	1,000 UJ
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1,000 U
Cyclohexane	ug/L	- -	- -	- -	1 U	1 U	1 U	NA	1 U	1 U	5,000 U

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RACER Trust, Buick City Site, Flint, Michigan

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Dibromochloromethane	ug/L	{ID}	110,000	2,600,000	1 U	1 U	1 U	5 U	1 U	1 U	1,000 U
Dibromomethane	ug/L	{ID}	{ID}	11,000,000	NA	NA	NA	5 U	NA	NA	NA
Dichlorodifluoromethane	ug/L	{ID}	300,000 {(S)}	300,000	1 U	1 U	1 U	5 U	1 U	1 U	1,000 U
Diethyl ether	ug/L	650,000	61,000,000 {(S)}	61,000,000	NA	NA	NA	10 U	NA	NA	NA
Ethylbenzene	ug/L	43,000	170,000 {(S)}	169,000	1 U	1 U	1 U	1 U	1 U	1 U	1,300 D
Hexachloroethane	ug/L	{ID}	50,000 {(S)}	50,000	NA	NA	NA	5 U	NA	NA	NA
Iodomethane	ug/L	- -	- -	- -	NA	NA	NA	1 U	NA	NA	NA
Isopropylbenzene	ug/L	29,000	56,000 {(S)}	56,000	1 U	1 U	1 U	5 U	1 U	1 U	5,000 U
m&p-Xylene	ug/L	- -	- -	- -	1 U	1 U	1 U	2 U	2 U	2 U	3,400 D
Methyl acetate	ug/L	- -	- -	- -	10 U	10 U	10 U	NA	10 U	10 U	5,000 U
Methyl tert-butyl ether	ug/L	{ID}	47,000,000 {(S)}	46,800,000	5 U	5 U	5 U	5 U	5 U	5 U	5,000 U
Methylcyclohexane	ug/L	- -	- -	- -	20 U	20 U	20 U	NA	20 U	20 U	1,000 U
Methylene Chloride	ug/L	{ID}	1,400,000	17,000,000	5 U	5 U	5 U	5 U	5 U	5 U	5,000 U
Naphthalene	ug/L	{NA}	31,000 {(S)}	31,000	NA	NA	NA	5 U	5 U	5 U	NA
n-Butylbenzene	ug/L	{ID}	{ID}	{NA}	NA	NA	NA	1 U	NA	NA	NA
n-Propylbenzene	ug/L	{ID}	{ID}	{NA}	NA	NA	NA	1 U	1 U	1 U	NA
o-Xylene	ug/L	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1,600 D
p-Isopropyltoluene	ug/L	- -	- -	- -	NA	NA	NA	5 U	NA	NA	NA
sec-Butylbenzene	ug/L	{ID}	{ID}	{NA}	NA	NA	NA	1 U	NA	NA	NA
Styrene	ug/L	140,000	310,000 {(S)}	310,000	1 U	1 U	1 U	1 U	1 U	1 U	1,000 U
tert-Butylbenzene	ug/L	{ID}	{ID}	{NA}	NA	NA	NA	1 U	NA	NA	NA
Tetrachloroethene	ug/L	{ID}	170,000	200,000	1 U	1 U	1 U	1 U	1 U	1 U	1,000 U
Tetrahydrofuran	ug/L	60,000	16,000,000	1,000,000,000	NA	NA	NA	90 U	NA	NA	NA
Toluene	ug/L	61,000	530,000 {(S)}	526,000	0.2 J	1 U	0.2	1 U	1 U	1 U	20,000 D
trans-1,2-Dichloroethene	ug/L	230,000	200,000	6,300,000	1 U	1 U	1 U	1 U	1 U	1 U	1,000 U
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1,000 U
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	NA	NA	NA	1 U	NA	NA	NA
Trichloroethene	ug/L	{ID}	4,900	1,100,000	1 U	1 U	1 U	1 U	1 U	1 U	1,000 U
Trichlorofluoromethane	ug/L	{ID}	1,100,000 {(S)}	1,100,000	1 U	1 U	1 U	1 U	1 U	1 U	1,000 U
Vinyl Chloride	ug/L	33,000	13,000	2,760,000	1 U	1 U	1 U	1 U	1 U	1 U	1,000 U
Xylenes (total)	ug/L	70,000	190,000 {(S)}	186,000	1 U	1 U	1 U	1 U	1 U	1 U	1,600
SVOC											
1,1'-Biphenyl	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	{ID}	{NLV}	1,200,000	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	{ID}	{NLV}	800,000	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	{ID}	{NLV}	4,500,000	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	{ID}	{NLV}	7,870,000	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	{ID}	{NLV}	270,000	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	{ID}	{ID}	6,740	NA	NA	NA	NA	NA	NA	NA

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RACER Trust, Buick City Site, Flint, Michigan

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2-Chlorophenol	ug/L	{ID}	1,100,000	22,000,000	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	{ID}	25,000 {(S)}	24,600	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	{ID}	{NLV}	2,500,000	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	{ID}	{NLV}	3,110	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	ug/L	{ID}	{NLV}	3,900,000	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	{ID}	4,200 {(S)}	4,240	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	{ID}	3,900 {(S)}	3,930	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	{ID}	6,100,000 {(S)}	6,100,000	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	{ID}	43 {(S)}	43.4	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	{ID}	{NLV}	70,000	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	{ID}	{NLV}	9.4	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	{ID}	{NLV}	1.62	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	1.5	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	{ID}	{NLV}	0.26	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	{ID}	{NLV}	0.8	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	210,000	17,200,000	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	{NLV}	340	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	ug/L	{ID}	{NLV}	2,690	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	{NA}	{NLV}	5,250,000,000	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	{ID}	{NLV}	7,480	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	{ID}	{ID}	1.6	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/L	{ID}	{NLV}	2.49	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	{ID}	10,000 {(S)}	10,000	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	ug/L	{NA}	{NLV}	1,080,000	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	ug/L	{NA}	{NLV}	4,190,000	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	ug/L	{NA}	{NLV}	11,200	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	ug/L	{ID}	{NLV}	3,000	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	{ID}	210 {(S)}	206	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	{ID}	2,000 {(S)}	1,980	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/L	{ID}	3,000	6,200	NA	NA	NA	NA	NA	NA	NA

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Hexachlorobutadiene	ug/L	{ID}	3,200 {(S)}	3,230	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	{ID}	420	1,800	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	{ID}	50,000 {(S)}	50,000	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{NLV}	0.022	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	{ID}	{NLV}	12,000,000	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	ug/L	{NA}	{NLV}	28,000,000	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	{NA}	31,000 {(S)}	31,000	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	{NA}	550,000	2,090,000	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NLV}	9,890,000	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	{ID}	{NLV}	35,100	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	{ID}	{NLV}	1,850,000	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	{ID}	1,000 {(S)}	1,000	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	{NA}	{NLV}	82,800,000	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	{ID}	140 {(S)}	135	NA	NA	NA	NA	NA	NA	NA
PCB											
Aroclor-1016	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/L	{ID}	45 {(S)}	44.7	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved											
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total PCBs (Dissolved)	ug/L	{ID}	45 {(S)}	44.7	NA	NA	NA	NA	NA	NA	NA
Inorganic											
Antimony	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	6	NA	NA
Barium	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chromium Total	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Copper	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA

Table G-2

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Groundwater Sample Analytical Results from Southeast Por
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	RFI-36-37 10/30/07	RFI-36-37 09/18/08	RFI-36-37 09/25/09	RFI-36-37 10/15/10	RFI-36-37 11/14/12	RFI-36-37 06/07/13	RFI-36-43 02/26/02
Lead	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	3 U	NA	NA
Manganese	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/L	{ID}	56 {(S)}	56	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Silver	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Thallium	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Miscellaneous											
Fluorine	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved											
Antimony (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	ug/L	{ID}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Field Parameters											
Conductivity Field	mS/cm	- -	- -	- -	NA	1.352	1.158	NA	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	NA	20 -	17.7	NA	NA	NA	NA
pH Field	s.u.	- -	- -	- -	NA	7.02	7.37	NA	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	NA	60	70	NA	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	NA	14.17	14.89	NA	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	NA	0.43	1.87	NA	NA	NA	NA
Field Parameters-Filtered											
Dissolved Oxygen, Field	ug/L	- -	- -	- -	NA	5,120	6,920	NA	NA	NA	NA

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-06 0.7 - 2 12/19/00	RFI-36-06 6 - 8 12/19/00	RFI-36-06 16 - 17 12/19/00	RFI-36-15 0.8 - 2 12/20/00	RFI-36-15 8 - 10 12/20/00
VOC												
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.036 U	0.033 U	0.041 U	0.035 U	0.036 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.036 U	0.033 U	0.041 U	0.035 U	0.036 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.036 U	0.033 U	0.041 U	0.035 U	0.036 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.04	0.033 U	0.041 U	0.035 U	0.036 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.036 U	0.033 U	0.041 U	0.035 U	0.036 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.036 U	0.033 U	0.041 U	0.035 U	0.036 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	0.071 U	0.067 U	0.082 U	0.07 U	0.071 U
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.036 U	0.033 U	0.041 U	0.035 U	0.036 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.25 U	0.24 U	0.29 U	0.25 U	0.25 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.15 U	0.14 U	0.17 U	0.15 U	0.15 U
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.15 U	0.14 U	0.17 U	0.15 U	0.15 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.31 J	0.24 U	0.29 U	0.3 U	0.31 U
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.036 U	0.033 U	0.041 U	0.035 U	0.036 U
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.036 U	0.033 U	0.041 U	0.035 U	0.036 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.036 U	0.033 U	0.041 U	0.035 U	0.036 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.15 U	0.14 U	0.17 U	0.15 U	0.15 U
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.15 U	0.14 U	0.17 U	0.15 U	0.15 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.036 U	0.033 U	0.041 U	0.035 U	0.036 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.036 U	0.033 U	0.041 U	0.035 U	0.036 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.15 U	0.14 U	0.17 U	0.15 U	0.15 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.036 U	0.033 U	0.041 U	0.035 U	0.036 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.15 U	0.14 U	0.17 U	0.15 U	0.15 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.036 U	0.033 U	0.041 U	0.035 U	0.036 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.036 U	0.033 U	0.041 U	0.035 U	0.036 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.036 U	0.033 U	0.041 U	0.035 U	0.036 U
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.036 U	0.033 U	0.041 U	0.035 U	0.036 U
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.071 U	0.067 U	0.082 U	0.07 U	0.071 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.15 U	0.14 U	0.17 U	0.15 U	0.15 U

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-06 0.7 - 2 12/19/00	RFI-36-06 6 - 8 12/19/00	RFI-36-06 16 - 17 12/19/00	RFI-36-15 0.8 - 2 12/20/00	RFI-36-15 8 - 10 12/20/00
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.036 U	0.033 U	0.041 U	0.035 U	0.036 U
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.036 U	0.033 U	0.041 U	0.035 U	0.036 U
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.036 UJ	0.033 U	0.041 U	0.035 U	0.036 U
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.097	0.033 U	0.041 U	0.035 U	0.036 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.036 U	0.033 U	0.041 U	0.035 U	0.036 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.036 U	0.033 U	0.041 U	0.035 U	0.036 U
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.05	0.033 U	0.041 U	0.035 U	0.036 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.036 U	0.033 U	0.041 U	0.035 U	0.036 U
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.036 U	0.033 U	0.041 U	0.035 U	0.036 U
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	4.6 U	0.19 U	1.8 U	3.6 UJ	0.18 UJ
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	R	R	R	14 U	0.71 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	18 U	0.76 U	6.9 U	14 U	0.71 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	9 U	0.37 U	3.4 U	6.9 U	0.35 U
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	18 U	0.76 U	6.9 U	14 UJ	0.71 UJ
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	18 U	0.76 UJ	6.9 U	14 U	0.71 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	18 U	0.76 U	6.9 U	14 U	0.71 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	18 UJ	0.76 UJ	6.9 UJ	14 UJ	0.71 UJ
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	4.6 U	0.19 UJ	1.8 U	3.6 U	0.18 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	18 U	0.76 U	6.9 U	14 U	0.71 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	18 U	0.76 U	6.9 U	14 UJ	0.71 UJ
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-06 0.7 - 2 12/19/00	RFI-36-06 6 - 8 12/19/00	RFI-36-06 16 - 17 12/19/00	RFI-36-15 0.8 - 2 12/20/00	RFI-36-15 8 - 10 12/20/00
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	4.6 U	0.19 U	1.8 U	3.6 UJ	0.18 UJ
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	4.6 UJ	0.19 UJ	1.8 UJ	3.6 UJ	0.18 UJ
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	4.6 U	0.19 UJ	1.8 U	3.6 U	0.18 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	4.6 U	0.194	1.8 U	3.6 U	0.18 U
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	4.6 U	0.19 UJ	1.8 U	3.6 U	0.18 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	4.6 UJ	0.19 UJ	1.8 UJ	3.6 U	0.18 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	4.6 UJ	0.19 U	1.8 UJ	3.6 UJ	0.18 UJ
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	4.6 U	0.19 UJ	1.8 U	3.6 U	0.18 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	4.6 U	0.19 U	1.8 U	3.6 U	0.18 U
PCB												
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-06 0.7 - 2 12/19/00	RFI-36-06 6 - 8 12/19/00	RFI-36-06 16 - 17 12/19/00	RFI-36-15 0.8 - 2 12/20/00	RFI-36-15 8 - 10 12/20/00
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	NA	NA	NA	NA	NA
Inorganic												
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	3	**8.2 (SDBL (2013))**	1.6	4 J	3.3 J
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	22	38	3.6	15 J	13 J
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.18	0.16	0.11	0.08	0.067
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	**25 (SDBL (2013))**	11	1.9	7.5	6.3
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	9	8.4	2.2	12	9.7
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.022 U	0.022 U	0.021 U	0.021 U	0.021 U
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	0.19 U	0.28	0.14 U	0.21 U	0.19 U
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.78	0.55 U	0.36 U	0.52 U	0.47 U
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	920,000	884,000	965,000	954,000	941,000

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-15 14 - 16 12/20/00	RFI-36-16 0.9 - 2 12/19/00	RFI-36-16 8 - 10 12/19/00	RFI-36-16 18 - 20 12/19/00
VOC											
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.041 U	0.034 U	0.039 U	0.041 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.041 U	0.034 U	0.039 U	0.041 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.041 U	0.034 U	0.039 U	0.041 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.057	0.066	0.039 U	0.041 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.041 U	0.034 U	0.039 U	0.041 UJ
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.041 U	0.034 U	0.039 U	0.041 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	0.082 U	0.068 U	0.078 U	0.082 U
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.041 U	0.034 U	0.039 U	0.041 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.29 U	0.24 U	0.28 U	0.29 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.18 U	0.15 U	0.17 U	0.17 U
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.18 UJ	0.15 U	0.17 U	0.17 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.42 UJ	0.24 U	0.28 U	0.29 U
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.041 U	0.034 U	0.039 U	0.041 U
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.041 U	0.034 U	0.039 U	0.041 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.041 UJ	0.034 U	0.039 U	0.041 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.18 U	0.15 U	0.17 U	0.17 U
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.18 U	0.15 U	0.17 U	0.17 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.041 UJ	0.034 U	0.039 U	0.041 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.041 U	0.034 U	0.039 U	0.041 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.18 U	0.15 U	0.17 U	0.17 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.041 U	0.034 U	0.039 U	0.041 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.18 U	0.15 U	0.17 U	0.17 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.041 U	3.1	0.039 U	0.041 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.041 UJ	0.034 U	0.039 U	0.041 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.041 U	0.034 U	0.039 U	0.041 U
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.041 U	0.034 U	0.039 U	0.041 U
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.082 U	0.068 U	0.078 U	0.082 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.18 U	0.15 U	0.17 U	0.17 U

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-15 14 - 16 12/20/00	RFI-36-16 0.9 - 2 12/19/00	RFI-36-16 8 - 10 12/19/00	RFI-36-16 18 - 20 12/19/00
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.041 U	0.034 U	0.039 U	0.041 U
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.041 U	0.034 U	0.039 U	0.041 U
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.041 UJ	0.034 UJ	0.039 UJ	0.041 UJ
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.041 U	0.31	0.039 U	0.043
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.041 U	0.11	0.039 U	0.041 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.041 UJ	0.034 U	0.039 U	0.041 U
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.12	1.5	0.039 U	0.053
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.041 U	0.034 U	0.039 U	0.041 U
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.041 U	0.034 U	0.039 U	0.041 U
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	4.1 U	1.8 U	0.18 U	1 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	4.1 U	1.8 U	0.18 U	1 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	4.1 UJ	1.8 U	0.18 U	1 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	4.1 UJ	1.8 U	0.18 U	1 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	4.1 UJ	1.8 U	0.18 U	1 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	4.1 U	1.8 U	0.18 U	1 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	4.1 U	1.8 U	0.18 U	1 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	4.1 UJ	1.8 U	0.18 U	1 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	4.1 U	1.8 U	0.18 U	1 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	16 U	R	R	R
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	4.1 U	1.8 U	0.18 U	1 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	4.1 UJ	1.8 U	0.18 U	1 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	4.1 U	1.8 U	0.18 U	1 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	4.1 U	1.8 U	0.18 U	1 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	4.1 U	1.8 U	0.18 U	1 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	4.1 U	1.8 U	0.18 U	1 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	R	7.2 U	0.71 U	4.1 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	4.1 U	1.8 U	0.18 U	1 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	8 U	3.5 U	0.35 U	2 U
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	16 UJ	7.2 U	0.71 U	4.1 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	R	7.2 U	0.71 UJ	4.1 UJ
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	16 U	7.2 U	0.71 U	4.1 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	4.1 U	1.8 U	0.18 U	1 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	4.1 U	1.8 U	0.18 U	1 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	16 UJ	7.2 UJ	0.71 UJ	4.1 UJ
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	4.1 U	1.8 U	0.18 UJ	1 UJ
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	16 U	7.2 U	0.71 U	4.1 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	16 UJ	7.2 U	0.71 U	4.1 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	4.1 U	1.8 U	0.18 U	1 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	4.1 U	1.8 U	0.18 U	1 U

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-15 14 - 16 12/20/00	RFI-36-16 0.9 - 2 12/19/00	RFI-36-16 8 - 10 12/19/00	RFI-36-16 18 - 20 12/19/00
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	4.1 U	1.8 U	0.18 U	1 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	4.1 U	1.8 U	0.18 U	1 U
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	4.1 U	1.8 U	0.18 U	1 U
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	4.1 U	1.8 U	0.18 U	1 U
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	4.1 UJ	1.8 U	0.18 U	1 U
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	4.1 U	1.8 U	0.18 U	1 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	4.1 UJ	1.8 UJ	0.18 UJ	1 UJ
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	4.1 UJ	1.8 U	0.18 UJ	1 UJ
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	4.1 U	1.8 U	0.18 U	1 U
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	4.1 U	1.8 U	0.18 U	1 U
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	4.1 U	1.8 U	0.18 U	1 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	4.1 U	1.8 U	0.18 U	1 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	4.1 U	1.8 U	0.18 U	1 U
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	4.1 U	1.8 U	0.18 U	1 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	4.1 U	1.8 U	0.18 U	1 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	4.1 U	1.8 U	0.18 UJ	1 UJ
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	4.1 U	1.8 U	0.18 U	1 U
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	4.1 U	1.8 U	0.18 U	1 U
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	4.1 U	1.8 U	0.18 U	1 U
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	4.1 U	1.8 U	0.18 U	1 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	4.1 U	1.8 U	0.18 U	1 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	4.1 U	1.8 U	0.18 U	1 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	4.1 U	1.8 UJ	0.18 UJ	1 UJ
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	4.1 U	1.8 U	0.18 U	1 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	4.1 UJ	1.8 UJ	0.18 U	1 U
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	4.1 U	1.8 U	0.18 U	1 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	4.1 U	1.8 U	0.18 U	1 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	4.1 U	1.8 U	0.18 U	1 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	4.1 UJ	1.8 U	0.18 U	1 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	4.1 U	1.8 U	0.18 UJ	1 UJ
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	4.1 U	1.8 U	0.18 U	1 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	4.1 U	1.8 U	0.18 U	1 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	16.1 D	1.8 U	0.18 U	1.17 D
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	4.1 U	1.8 U	0.18 U	1 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	4.1 U	1.8 U	0.18 U	1 U
PCB											
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-15 14 - 16 12/20/00	RFI-36-16 0.9 - 2 12/19/00	RFI-36-16 8 - 10 12/19/00	RFI-36-16 18 - 20 12/19/00
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	NA	NA	NA	NA
Inorganic											
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	**39 J (NDC (2013),SDBL (2013))**	3.2	3.1	**8.1 (SDBL (2013))**
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	**120 J (SDBL (2013))**	30	9.8	27
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.085	0.21	0.078	0.14
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	7.3	**32 (SDBL (2013))**	4.2	9.1
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	4.3	19	3.4	5.9
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.024 U	0.021 U	0.021 U	0.024 U
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	0.23	0.25	0.2 U	0.18
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.44 U	0.42 U	0.49 U	0.39 U
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	830,000	931,000	947,000	821,000

Table G-3

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RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-21 6 - 8 03/28/01	RFI-36-21 8 - 10 03/28/01	RFI-36-21 10 - 12 03/28/01	RFI-36-21 12 - 14 03/28/01
VOC											
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.041 U	0.036 U	0.038 U	0.036 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.082 U	0.071 U	0.077 U	0.072 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.17 UJ	0.15 UJ	0.16 UJ	0.15 UJ
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.041 U	0.036 U	0.038 U	0.036 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.041 U	0.036 U	0.22	0.036 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.041 U	0.036 U	0.038 U	0.036 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.17 U	0.15 U	0.16 U	0.15 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.17 U	0.15 U	0.16 U	0.15 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.17 U	0.15 U	0.16 U	0.15 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.082 U	0.071 U	0.077 U	0.072 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.041 U	0.036 U	0.038 U	0.036 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.041 U	0.036 U	0.038 U	0.036 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.082 U	0.071 U	0.077 U	0.072 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.082 U	0.071 U	0.077 U	0.072 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.29 U	0.25 U	0.27 U	0.26 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.29 UJ	0.25 UJ	0.27 U	0.26 UJ
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.29 U	0.25 U	0.27 U	0.26 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.062 J	0.25 UJ	0.27 U	0.067 J
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.041 U	0.036 U	0.13	0.036 U
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.082 U	0.071 U	0.077 U	0.072 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.082 U	0.071 U	0.077 UJ	0.072 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.17 UJ	0.15 UJ	0.16 U	0.15 UJ
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.17 U	0.15 U	0.16 U	0.15 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.041 U	0.036 U	0.038 U	0.036 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.041 U	0.036 U	0.038 U	0.036 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.17 U	0.15 U	0.16 U	0.15 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.041 U	0.036 U	0.038 U	0.036 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.17 U	0.15 U	0.16 U	0.15 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.041 U	0.036 U	0.038 U	0.036 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.041 U	0.036 U	0.038 U	0.036 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.17 U	0.15 U	0.16 U	0.15 U
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.082 U	0.071 U	0.077 U	0.072 U
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.082 U	0.071 UJ	0.077 UJ	0.072 UJ
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.041 UJ	0.036 U	0.37	0.036 U
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.17 U	0.15 U	0.16 U	0.15 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.082 U	0.071 U	1	0.072 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.17 UJ	0.15 UJ	0.16 UJ	0.15 UJ
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.29 U	0.25 U	0.27 U	0.26 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.17 U	0.15 U	0.16 U	0.15 U
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.17 U	0.047 J	0.16 U	0.039 J

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Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-21 6 - 8 03/28/01	RFI-36-21 8 - 10 03/28/01	RFI-36-21 10 - 12 03/28/01	RFI-36-21 12 - 14 03/28/01
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.041 U	0.036 U	0.4	0.036 U
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.041 U	0.036 U	0.038 U	0.036 U
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.041 U	0.036 U	0.038 U	0.036 U
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.041 U	0.036 U	1.4	0.036 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.041 U	0.036 U	0.038 U	0.036 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.041 U	0.036 U	0.038 U	0.036 U
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.041 U	0.036 U	0.038 U	0.036 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.082 U	0.071 U	0.077 U	0.072 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.041 U	0.036 U	0.038 U	0.036 U
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.041 U	0.036 U	0.4	0.036 U
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.18 U	0.19 U	0.18 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.18 U	0.19 U	0.18 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U	0.19 U	0.602
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U	0.19 U	0.18 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U	0.19 U	0.18 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U	0.19 U	0.18 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.76 U	0.69 U	0.73 U	0.69 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.76 U	0.69 U	0.73 U	0.69 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.18 U	0.19 U	0.18 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.19 U	0.18 UJ	0.19 U	0.18 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.19 U	0.18 U	0.19 U	0.18 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.19 U	0.18 UJ	0.19 U	0.222 J
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.18 U	0.19 U	0.18 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.76 U	0.69 U	0.73 U	0.69 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.19 U	0.18 U	0.19 U	0.18 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.38 U	0.35 U	0.37 U	0.35 U
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.76 U	0.69 UJ	0.73 UJ	0.69 UJ
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.76 U	0.69 U	0.73 U	0.69 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.76 U	0.69 U	0.73 U	0.69 UJ
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.18 U	0.19 U	0.18 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.19 U	0.18 U	0.19 U	0.18 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.76 UJ	0.69 UJ	0.73 UJ	0.69 UJ
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.76 U	0.69 U	0.73 U	0.69 UJ
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.76 U	0.69 U	0.73 U	0.69 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.76 U	0.69 U	0.73 U	0.69 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.19 U	0.18 U	0.222 J	0.18 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.19 U	0.18 U	0.19 U	0.18 U

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-21 6 - 8 03/28/01	RFI-36-21 8 - 10 03/28/01	RFI-36-21 10 - 12 03/28/01	RFI-36-21 12 - 14 03/28/01
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.19 U	0.18 U	0.19 U	0.18 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.19 U	0.18 U	0.597 J	0.18 UJ
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.19 U	0.18 U	0.19 U	0.18 UJ
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.18 U	0.19 U	0.18 U
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.19 U	0.18 U	1.11 J	0.18 UJ
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.19 U	0.18 UJ	0.902 J	0.18 UJ
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.19 U	0.18 UJ	1.21 J	0.18 UJ
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 UJ	0.465 J	0.18 UJ
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.19 U	0.18 UJ	0.873 J	0.18 UJ
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.18 U	0.19 U	0.18 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.037 U	0.034 U	0.036 U	0.034 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U	0.19 UJ	0.702 J
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.19 U	0.192	0.19 UJ	0.18 UJ
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U	0.19 U	0.18 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U	0.352	0.18 UJ
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.19 U	0.18 U	1.2 J	0.18 UJ
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.19 U	0.18 UJ	0.19 UJ	0.18 UJ
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.19 U	0.18 U	0.19 U	0.18 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U	0.19 U	0.18 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U	0.19 U	0.18 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U	0.19 U	0.18 UJ
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 UJ	0.19 UJ	0.18 UJ
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.19 U	0.18 U	1.87 J	0.18 UJ
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.19 U	0.18 U	0.208 J	0.18 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.19 U	0.18 U	0.19 U	0.18 UJ
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.19 U	0.18 U	0.19 U	0.18 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.19 U	0.18 U	0.19 U	0.18 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.19 U	0.18 U	0.19 U	0.18 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.19 U	0.18 UJ	0.497 J	0.18 UJ
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U	0.19 U	0.18 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U	0.19 U	0.18 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.19 U	0.18 U	0.19 U	0.18 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.076 U	0.069 U	0.073 U	0.069 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U	0.19 U	0.18 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U	0.19 U	0.18 UJ
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.76 U	0.69 U	0.73 U	7.21 J
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.19 U	0.18 U	1.93 J	0.18 UJ
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U	0.19 U	0.18 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.19 U	0.18 U	2.39 J	0.18 UJ
PCB											
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.034 U	0.036 U	0.18 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.034 U	0.036 U	0.18 U

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-21 6 - 8 03/28/01	RFI-36-21 8 - 10 03/28/01	RFI-36-21 10 - 12 03/28/01	RFI-36-21 12 - 14 03/28/01
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.034 U	0.036 U	0.18 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.034 U	0.036 U	0.18 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.034 U	0.036 U	0.18 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.034 U	0.036 U	0.18 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.034 U	0.036 U	0.18 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.038 U	0.034 U	0.036 U	0.18 U
Inorganic											
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	R	0.56 J	0.34 UJ	0.31 UJ
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	4.6 J	3.5	**9.5 J (SDBL (2013))**	1.7
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	23 J	11 J	**110 J (SDBL (2013))**	3.9 J
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.2 J	0.16 J	0.31 J	0.17 U
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.049 J	0.098 J	0.38 J	0.034 J
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	8 J	4.8	**46 J (SDBL (2013))**	2.4
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	4 J	3	**8.6 J (SDBL (2013))**	1.1
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	14 J	**51 J (SDBL (2013))**	**88 J (SDBL (2013))**	4.8 J
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.2 U	0.2 U	0.2 U	0.2 U
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	6.5 J	4.6 J	**52 J (SDBL (2013))**	2 J
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	220 J	170	**510 J (SDBL (2013))**	67
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	R	**6.9 UJ**	R	0.072 UJ
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	9.9 J	15	**46 J (SDBL (2013))**	2.8
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	**1.5 U**	**1.8 U**	**1.4 U**	**1.2 U**
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.11 U	0.2 J	**3 J (SDBL (2013))**	0.03 J
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.079 J	0.28 U	0.099 J	0.2 U
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	9.6 J	7.2	13 J	3.6
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	28 J	24 J	**72 J (SDBL (2013))**	11 J
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	885,000	969,000	918,000	969,000

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-22 0 - 2 03/27/01	RFI-36-22 8 - 10 03/27/01	RFI-36-22 10 - 12 03/27/01	RFI-36-23 0 - 2 03/27/01
VOC											
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.036 U	0.038 U	0.037 U [0.038 U]	0.037 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.073 U	0.077 U	0.073 U [0.075 U]	0.074 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.16 UJ	0.16 UJ	0.16 UJ [0.16 UJ]	0.16 UJ
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.036 U	0.038 U	0.037 U [0.038 U]	0.037 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.036 U	0.038 U	0.17 [0.038 U]	0.037 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.036 U	0.038 U	0.037 U [0.038 U]	0.037 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.16 U	0.16 U	0.16 U [0.16 U]	0.16 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.16 U	0.16 U	0.16 U [0.16 U]	0.16 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.16 U	0.16 U	0.16 U [0.16 U]	0.16 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.073 U	0.077 U	0.073 U [0.075 U]	0.074 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.036 U	0.038 U	0.037 U [0.038 U]	0.037 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.036 U	0.038 U	0.037 U [0.038 U]	0.037 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.073 U	0.077 U	0.073 U [0.075 U]	0.074 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.073 U	0.077 U	0.073 U [0.075 U]	0.074 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.26 U	0.27 U	0.26 U [0.27 U]	0.26 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.26 U	0.27 U	0.26 U [0.27 U]	0.26 UJ
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.26 U	0.27 U	0.26 U [0.27 U]	0.26 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.084 J	0.079 J	0.26 UJ [0.27 U]	0.26 UJ
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.036 U	0.038 U	0.037 U [0.038 U]	0.037 U
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.073 U	0.077 U	0.073 U [0.075 U]	0.074 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.073 U	0.077 U	0.073 U [0.075 U]	0.074 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.16 UJ	0.16 U	0.16 UJ [0.16 UJ]	0.16 UJ
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.16 U	0.16 U	0.16 U [0.16 U]	0.16 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.036 U	0.038 U	0.037 U [0.038 U]	0.037 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.036 U	0.038 U	0.037 U [0.038 U]	0.037 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.16 U	0.16 UJ	0.16 U [0.16 U]	0.16 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.036 U	0.038 U	0.037 U [0.038 U]	0.037 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.16 U	0.16 U	0.16 U [0.16 U]	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.036 U	0.038 U	0.037 U [0.038 U]	0.037 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.036 U	0.038 U	0.037 U [0.038 U]	0.037 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.16 U	0.16 U	0.16 U [0.16 U]	0.16 U
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.073 U	0.077 U	0.073 U [0.075 U]	0.074 U
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.073 UJ	0.077 UJ	0.073 UJ [0.075 UJ]	0.074 UJ
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.036 U	0.038 U	0.037 U [0.038 U]	0.037 U
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.16 U	0.16 U	0.16 U [0.16 U]	0.16 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.073 U	0.077 U	0.073 U [0.075 U]	0.074 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.16 UJ	0.16 UJ	0.16 UJ [0.16 UJ]	0.16 UJ
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.26 U	0.27 U	0.26 U [0.27 U]	0.26 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.16 U	0.16 U	0.16 U [0.16 U]	0.16 U
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.048 J	0.071 J	0.16 U [0.053 J]	0.04 J

Table G-3

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RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-22 0 - 2 03/27/01	RFI-36-22 8 - 10 03/27/01	RFI-36-22 10 - 12 03/27/01	RFI-36-23 0 - 2 03/27/01
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.036 U	0.038 U	0.037 U [0.038 U]	0.037 U
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.036 U	0.038 U	0.037 U [0.038 U]	0.037 U
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.036 U	0.038 U	0.037 U [0.038 U]	0.037 U
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.036 U	0.038 U	0.037 U [0.038 U]	0.037 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.036 U	0.038 U	0.037 U [0.038 U]	0.037 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.036 U	0.038 U	0.037 U [0.038 U]	0.037 U
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.036 U	0.038 U	0.037 U [0.038 U]	0.041
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.073 U	0.077 U	0.073 U [0.075 U]	0.074 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.036 U	0.038 U	0.037 U [0.038 U]	0.037 U
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.036 U	0.038 U	0.037 U [0.038 U]	0.037 U
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	1.14
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.71 U	0.73 U	0.72 U [0.71 U]	0.72 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.71 U	0.73 U	0.72 U [0.71 U]	0.72 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 UJ
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.18 UJ	0.18 UJ	0.18 U [0.18 UJ]	0.18 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.71 U	0.73 U	0.72 U [0.71 U]	0.72 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.36 U	0.37 U	0.36 U [0.36 U]	0.36 U
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.71 UJ	0.73 UJ	0.72 U [0.71 UJ]	0.72 UJ
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.71 U	0.73 U	0.72 U [0.71 U]	0.72 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.71 U	0.73 U	0.72 U [0.71 U]	0.72 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.71 UJ	0.73 UJ	0.72 UJ [0.71 UJ]	0.72 UJ
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.71 U	0.73 U	0.72 U [0.71 U]	0.72 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.71 U	0.73 U	0.72 U [0.71 U]	0.72 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.71 U	0.73 U	0.72 U [0.71 U]	0.72 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-22 0 - 2 03/27/01	RFI-36-22 8 - 10 03/27/01	RFI-36-22 10 - 12 03/27/01	RFI-36-23 0 - 2 03/27/01
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.0891 J	0.18 U	0.18 U [0.18 U]	0.18 UJ
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.18 UJ	0.18 U	0.18 U [0.18 U]	0.18 UJ
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.18 UJ	0.18 U	0.18 U [0.18 U]	0.18 UJ
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.18 UJ	0.18 U [0.18 UJ]	0.18 UJ
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.18 U	0.18 U [0.18 U]	0.18 UJ
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.035 U	0.036 U	0.035 U [0.035 U]	0.035 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.18 U	0.18 U [0.18 U]	0.18 UJ
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.18 U	0.18 U [0.18 U]	0.18 UJ
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.161 J	0.18 U	0.18 U [0.18 U]	0.18 UJ
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.18 U	0.18 U [0.18 U]	0.18 UJ
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.18 U	0.18 U [0.18 U]	0.18 UJ
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.175 J	0.18 U	0.18 U [0.18 U]	0.18 U
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.18 U	0.18 U	0.18 UJ [0.18 U]	0.18 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.18 U	0.18 U [0.18 U]	0.18 UJ
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.071 U	0.073 U	0.072 U [0.071 U]	0.072 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.71 U	0.73 U	0.72 U [0.71 U]	0.788 J
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.116 J	0.18 U	0.18 U [0.18 U]	0.18 U
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U [0.18 U]	0.18 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.557 J	0.18 U	0.18 U [0.18 U]	0.18 UJ
PCB											
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.035 U	0.036 U	0.036 U [0.035 U]	0.036 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.035 U	0.036 U	0.036 U [0.035 U]	0.036 U

Table G-3

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Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-22 0 - 2 03/27/01	RFI-36-22 8 - 10 03/27/01	RFI-36-22 10 - 12 03/27/01	RFI-36-23 0 - 2 03/27/01
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.035 U	0.036 U	0.036 U [0.035 U]	0.036 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.035 U	0.036 U	0.036 U [0.035 U]	0.036 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.035 U	0.036 U	0.036 U [0.035 U]	0.036 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.035 U	0.036 U	0.036 U [0.035 U]	0.036 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.035 U	0.036 U	0.036 U [0.035 U]	0.036 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.035 U	0.036 U	0.036 U [0.035 U]	0.036 U
Inorganic											
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.36 UJ	0.48 UJ	0.37 UJ [0.4 UJ]	0.27 UJ
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	2.5	3.6	2.5 [2.9]	**6.7 (SDBL (2013))**
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	10 J	12 J	13 J [10 J]	44 J
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.096 J	0.15 J	0.11 J [0.099 J]	0.58
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.099	0.06 J	0.074 J [0.1 J]	0.2
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	11	6.1	6.2 J [4.5]	**21 (SDBL (2013))**
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	3.7	4.1	2.4 [3.5]	**10 (SDBL (2013))**
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	**34 J (SDBL (2013))**	14 J	10 J [6.3 J]	31 J
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	7.8 J	4.9 J	3 J [3.6 J]	21 J
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	180	93	92 [190]	260 D
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.074 UJ	0.074 UJ	0.074 U [0.072 UJ]	0.073 UJ
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	10	7.9	5.4 [7.4]	**23 (SDBL (2013))**
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	**1.4 U**	**1.9 U**	**1.5 U [1.6 U]**	**1.1 U**
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.084 J	0.083 J	0.044 J [0.069 J]	0.23 J
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.23 U	0.3 U	0.23 U [0.25 U]	0.15 J
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	5.1	7.9	6.3 [5.9]	21
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	18 J	25 J	15 [20 J]	**60 J (SDBL (2013))**
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	946,000	920,000	935,000 [939,000]	937,000

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-23 8 - 10 03/27/01	RFI-36-23 10 - 12 03/27/01	RFI-36-24 0 - 2 03/26/01	RFI-36-24 6 - 8 03/26/01
VOC											
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.037 U	0.037 U	0.036 U	0.037 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.075 U	0.073 U	0.073 U	0.073 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.16 UJ	0.16 UJ	0.16 UJ	0.16 U
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.037 U	0.037 U	0.036 U	0.037 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.037 U	0.061	0.036 U	0.062
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.037 U	0.037 U	0.036 U	0.037 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.16 U	0.16 U	0.16 U	0.16 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.16 U	0.16 U	0.16 U	0.16 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.16 U	0.16 U	0.16 U	0.16 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.075 U	0.073 U	0.073 U	0.073 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.037 U	0.037 U	0.036 U	0.037 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.037 U	0.037 U	0.036 U	0.037 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.075 U	0.073 U	0.073 U	0.073 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.075 U	0.073 U	0.073 U	0.073 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.27 U	0.062 J	0.26 U	0.045 J
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.27 U	0.26 U	0.26 U	0.26 U
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.27 U	0.26 U	0.26 U	0.26 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.077 J	0.12 J	0.26 UJ	0.26 U
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.037 U	0.037 U	0.036 U	0.037 U
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.075 U	0.073 U	0.073 U	0.073 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.075 U	0.073 U	0.073 U	0.073 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.16 U	0.16 U	0.16 U	0.16 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.037 U	0.037 U	0.036 U	0.037 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.037 U	0.037 U	0.036 U	0.037 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.16 U	0.16 U	0.16 U	0.16 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.037 U	0.037 U	0.036 U	0.037 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.037 U	0.037 U	0.036 U	0.037 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.037 U	0.037 U	0.036 U	0.037 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.16 U	0.16 U	0.16 U	0.16 U
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.075 U	0.073 U	0.073 U	0.073 U
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.075 UJ	0.073 UJ	0.073 UJ	0.073 U
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.037 U	0.037 U	0.036 U	0.037 U
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.16 U	0.16 U	0.16 U	0.16 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.075 U	0.073 U	0.073 U	0.073 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.27 U	0.26 U	0.26 U	0.26 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.16 U	0.16 U	0.16 U	0.16 U
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.062 J	0.039 J	0.16 U	0.16 U

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-23 8 - 10 03/27/01	RFI-36-23 10 - 12 03/27/01	RFI-36-24 0 - 2 03/26/01	RFI-36-24 6 - 8 03/26/01
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.037 U	0.037 U	0.036 U	0.037 U
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.037 U	0.037 U	0.036 U	0.037 U
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.037 U	0.037 U	0.036 U	0.037 U
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.037 U	0.037 U	0.036 U	0.037 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.037 U	0.037 U	0.036 U	0.037 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.037 U	0.037 U	0.036 U	0.037 U
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.037 U	0.037 U	0.036 U	0.037 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.075 U	0.073 U	0.073 U	0.073 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.037 U	0.037 U	0.036 U	0.037 U
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.037 U	0.037 U	0.036 U	0.037 U
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.18 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.18 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.72 U	0.71 U	0.71 U	0.7 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.72 U	0.71 U	0.71 U	0.7 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.18 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.18 UJ	0.18 U	0.18 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.18 UJ	0.18 U	0.18 U	0.18 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.18 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.72 U	0.71 U	0.71 U	0.7 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.36 U	0.36 U	0.36 U	0.36 U
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.72 UJ	0.71 UJ	0.71 U	0.7 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.72 U	0.71 U	0.71 U	0.7 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.72 U	0.71 U	0.71 U	0.7 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.18 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.72 UJ	0.71 UJ	0.71 UJ	0.7 UJ
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.72 U	0.71 U	0.71 U	0.7 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.72 U	0.71 U	0.71 U	0.7 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.72 U	0.71 U	0.71 U	0.7 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.18 U	0.18 U	0.18 U	0.18 U

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-23 8 - 10 03/27/01	RFI-36-23 10 - 12 03/27/01	RFI-36-24 0 - 2 03/26/01	RFI-36-24 6 - 8 03/26/01
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.18 U
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.114 J
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.18 U	0.18 UJ	0.18 UJ	0.18 U
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.18 U	0.18 UJ	0.18 UJ	0.18 U
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.18 UJ	0.18 UJ	0.18 U
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 UJ	0.18 UJ	0.18 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.18 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.035 U	0.035 U	0.035 U	0.035 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.108 J
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.18 U	0.18 U	0.137 J
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 UJ	0.18 UJ	0.18 U
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.0833 J
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 UJ	0.18 UJ	0.18 U
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.175 J	0.18 U	0.18 U	0.0864 J
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 UJ	0.18 UJ	0.18 U
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.072 U	0.071 U	0.071 U	0.07 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.72 U	0.71 U	0.71 U	0.7 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.173 J	0.18 U	0.115 J	0.102 J
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.228	0.18 U	0.103 J	0.176 J
PCB											
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.035 U	0.035 U	0.037 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.035 U	0.035 U	0.037 U

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-23 8 - 10 03/27/01	RFI-36-23 10 - 12 03/27/01	RFI-36-24 0 - 2 03/26/01	RFI-36-24 6 - 8 03/26/01
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.035 U	0.035 U	0.037 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.035 U	0.035 U	0.037 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.035 U	0.035 U	0.037 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.035 U	0.08	0.037 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.035 U	0.035 U	0.037 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.036 U	0.035 U	0.08	0.037 U
Inorganic											
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.2 J	0.4 J	0.38 UJ	0.42 UJ
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	3.6	**6.4 (SDBL (2013))**	**7.1 (SDBL (2013))**	4.6
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	18 J	15 J	32 J	15 J
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.14 J	0.17 J	0.54	0.16 J
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.063 J	0.14	0.47 J	0.14 J
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	6.4	8.8	**39 J (SDBL (2013))**	**22 J (SDBL (2013))**
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	2.7	3.9	3.2	3.1
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	14 J	26 J	**39 J (SDBL (2013))**	**65 J (SDBL (2013))**
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.2 U	0.2 U	0.2 U	0.2 U
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	5.3 J	8.2 J	15 J	11 J
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	130	130	330	210
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.075 UJ	0.074 UJ	0.07 U	0.07 U
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	8.4	12	**22 (SDBL (2013))**	11
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	**1.3 U**	**1.7 U**	**0.54 J (SDBL (2013))**	**1.7 U**
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.18 J	0.31 J	0.43 J	0.19 J
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.2 U	0.12 J	0.37	0.14 J
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	6.9	11	11	12
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	29 J	40 J	17	35
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	932,000	943,000	944,000	956,000

Table G-3

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Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-24 8 - 10 03/26/01	RFI-36-24 10 - 12 03/26/01	RFI-36-25 0 - 2 03/27/01	RFI-36-25 8 - 10 03/27/01
VOC											
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.035 U	0.038 U [0.036 U]	0.039 U	0.037 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.07 U	0.076 U [0.072 U]	0.078 U	0.073 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.15 U	0.16 U [0.16 U]	0.17 UJ	0.16 U
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.035 U	0.038 U [0.036 U]	0.039 U	0.037 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.035 U	0.038 U [0.036 U]	0.039 U	0.037 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.035 U	0.038 U [0.036 U]	0.039 U	0.037 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.15 U	0.16 U [0.16 U]	0.17 U	0.16 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.15 U	0.16 U [0.16 U]	0.17 U	0.16 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.15 U	0.16 U [0.16 U]	0.17 U	0.16 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.07 U	0.076 U [0.072 U]	0.078 U	0.073 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.035 U	0.038 U [0.036 U]	0.039 U	0.037 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.035 U	0.038 U [0.036 U]	0.039 U	0.037 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.07 U	0.076 U [0.072 U]	0.078 U	0.073 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.07 U	0.076 U [0.072 U]	0.078 U	0.073 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.036 J	0.27 U [0.26 U]	0.28 U	0.26 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.25 U	0.27 U [0.26 U]	0.28 U	0.26 U
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.25 U	0.27 U [0.26 U]	0.28 U	0.26 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.25 U	0.27 U [0.26 U]	0.28 UJ	0.26 U
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.035 U	0.038 U [0.036 U]	0.039 U	0.037 U
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.07 U	0.076 U [0.072 U]	0.078 U	0.073 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.07 U	0.076 U [0.072 U]	0.078 U	0.073 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.15 UJ	0.16 UJ [0.16 UJ]	0.17 UJ	0.16 UJ
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.15 U	0.16 U [0.16 U]	0.17 U	0.16 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.035 U	0.038 U [0.036 U]	0.039 U	0.037 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.035 U	0.038 U [0.036 U]	0.039 U	0.037 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.15 U	0.16 U [0.16 U]	0.17 U	0.16 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.035 U	0.038 U [0.036 U]	0.039 U	0.037 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.15 U	0.16 U [0.16 U]	0.17 U	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.035 U	0.038 U [0.036 U]	0.039 U	0.037 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.035 U	0.038 U [0.036 U]	0.039 U	0.037 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.15 U	0.16 U [0.16 U]	0.17 U	0.16 U
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.07 U	0.076 U [0.072 U]	0.078 U	0.073 U
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.07 U	0.076 U [0.072 U]	0.078 UJ	0.073 U
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.035 U	0.038 U [0.036 U]	0.039 U	0.037 U
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.15 U	0.16 U [0.16 U]	0.17 U	0.16 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.07 U	0.076 U [0.072 U]	0.078 U	0.073 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.15 UJ	0.16 UJ [0.16 UJ]	0.17 UJ	0.16 UJ
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.25 U	0.27 U [0.26 U]	0.28 U	0.26 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.15 U	0.16 U [0.16 U]	0.17 U	0.16 U
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.15 U	0.16 U [0.16 U]	0.17 U	0.16 U

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-24 8 - 10 03/26/01	RFI-36-24 10 - 12 03/26/01	RFI-36-25 0 - 2 03/27/01	RFI-36-25 8 - 10 03/27/01
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.035 U	0.038 U [0.036 U]	0.039 U	0.037 U
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.035 U	0.038 U [0.036 U]	0.039 U	0.037 U
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.035 U	0.038 U [0.036 U]	0.039 U	0.037 U
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.035 U	0.038 U [0.036 U]	0.039 U	0.037 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.035 U	0.038 U [0.036 U]	0.039 U	0.037 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.035 U	0.038 U [0.036 U]	0.039 U	0.037 U
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.035 U	0.038 U [0.036 U]	0.039 U	0.037 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.07 U	0.076 U [0.072 U]	0.078 U	0.073 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.035 U	0.038 U [0.036 U]	0.039 U	0.037 U
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.035 U	0.038 U [0.036 U]	0.039 U	0.037 U
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.7 U	0.75 U [0.69 U]	0.74 U	0.72 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.7 U	0.75 U [0.69 U]	0.74 U	0.72 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.7 U	0.75 U [0.69 U]	0.74 U	0.72 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.35 U	0.38 U [0.35 U]	0.38 U	0.36 U
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.7 UJ	0.75 UJ [0.69 UJ]	0.74 U	0.72 UJ
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.7 U	0.75 U [0.69 U]	0.74 U	0.72 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.7 U	0.75 U [0.69 U]	0.74 U	0.72 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.7 UJ	0.75 UJ [0.69 UJ]	0.74 UJ	0.72 UJ
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.7 U	0.75 U [0.69 U]	0.74 U	0.72 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.7 U	0.75 U [0.69 U]	0.74 U	0.72 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.7 U	0.75 U [0.69 U]	0.74 U	0.72 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U

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Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 UJ [0.18 UJ]	0.19 U	0.18 UJ
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 UJ [0.18 UJ]	0.19 UJ	0.152 J
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.18 UJ	0.19 UJ [0.18 UJ]	0.19 UJ	0.115 J
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 UJ [0.18 UJ]	0.19 UJ	0.111 J
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 UJ [0.18 UJ]	0.19 UJ	0.128 J
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.034 U	0.037 U [0.034 U]	0.037 U	0.035 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 UJ [0.18 UJ]	0.19 U	0.18 UJ
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 UJ [0.18 UJ]	0.19 U	0.18 UJ
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.18 UJ	0.19 UJ [0.18 UJ]	0.19 U	0.0922 J
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 UJ [0.18 UJ]	0.19 UJ	0.18 UJ
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 UJ [0.18 UJ]	0.19 UJ	0.132 J
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.105 J
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.18 U	0.19 U [0.18 U]	0.19 UJ	0.18 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 UJ [0.18 UJ]	0.19 UJ	0.18 UJ
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.07 U	0.075 U [0.069 U]	0.074 U	0.072 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.7 U	0.75 U [0.69 U]	0.74 U	0.72 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.861 J	0.371 J [0.18 UJ]	0.19 U	0.18 U
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U [0.18 U]	0.19 U	0.18 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.18 UJ	0.19 UJ [0.18 UJ]	0.193	0.19 J
PCB											
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.037 U [0.035 U]	R	0.036 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.037 U [0.035 U]	R	0.036 U

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-24 8 - 10 03/26/01	RFI-36-24 10 - 12 03/26/01	RFI-36-25 0 - 2 03/27/01	RFI-36-25 8 - 10 03/27/01
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.037 U [0.035 U]	R	0.036 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.037 U [0.035 U]	R	0.036 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.037 U [0.035 U]	R	0.036 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.037 U [0.028 J]	R	0.036 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.037 U [0.035 U]	R	0.036 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.036 U	0.037 U [0.028 J]	R	0.036 U
Inorganic											
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.4 UJ	0.36 UJ [0.39 UJ]	0.27 UJ	0.28 UJ
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	**6.3 (SDBL (2013))**	3.3 [4.8]	**7.8 (SDBL (2013))**	3.5
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	25 J	9.9 J [20 J]	**110 J (SDBL (2013))**	7.7 J
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.22 U	0.16 J [0.099 J]	0.15 U	0.086 J
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.2 J	0.18 J [0.14 J]	0.16 J	0.066 J
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	5.4 J	14 J [4.2 J]	**28 J (SDBL (2013))**	3.2 J
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	3.4	3.5 [2.6]	**8.3 (SDBL (2013))**	2.1
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	30 J	**54 J (SDBL (2013)) [19 J]**	14 J	5.9 J
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	5.6 J	7.8 J [4 J]	11 J	4 J
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	300	150 [190]	380	91
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.073 U	0.075 U [0.07 U]	0.0157 J	0.073 U
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	7.6	10 [6]	**23 (SDBL (2013))**	5.1
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	**1.6 U**	**1.4 U [1.5 U]**	**1.1 U**	**1.1 U**
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.11 J	0.055 J [0.11 U]	0.11 J	0.081 U
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.26 U	0.077 J [0.25 U]	0.2	0.18 U
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	10	12 [8.1]	19	5.9
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	34	34 [26]	42	21
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	961,000	896,000 [965,000]	902,000	932,000

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-25 12 - 14 03/27/01	RFI-36-25R 1 - 3 12/15/01	RFI-36-25R 7 - 9 12/15/01	RFI-36-25R 11 - 13 12/15/01	RFI-36-26 0 - 2 03/27/01
VOC												
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.042 U	0.04 U	0.044 U	0.038 U	0.038 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.084 U	0.079 U	0.087 U	0.076 U	0.076 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.18 U	0.17 U	0.19 U	0.16 U	0.16 U
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.042 U	0.04 U	0.044 U	0.038 U	0.038 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.042 U	0.04 U	0.044 U	0.038 U	0.87
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.042 U	0.04 U	0.044 U	0.038 U	0.071
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.18 U	0.17 U	0.19 U	0.16 U	0.16 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.18 U	0.17 U	0.19 U	0.16 U	0.16 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.18 U	0.17 U	0.19 U	0.16 U	0.16 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.084 U	0.079 U	0.087 U	0.076 U	0.076 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.042 U	0.04 UJ	0.044 UJ	0.038 UJ	0.038 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.042 U	0.04 U	0.044 U	0.038 U	0.038 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.084 U	0.079 U	0.087 U	0.076 U	0.076 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.084 U	0.079 U	0.087 U	0.076 U	0.076 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.3 U	0.28 U	0.31 U	0.27 U	0.27 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.3 U	0.28 U	0.31 U	0.27 U	0.27 U
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.3 U	0.28 UJ	0.31 UJ	0.27 UJ	0.27 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.3 U	0.28 U	0.31 U	0.27 U	0.27 U
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.042 U	0.04 U	0.044 U	0.038 U	0.038 U
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.084 U	0.079 U	0.087 U	0.076 U	0.076 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.084 U	0.079 U	0.087 U	0.076 U	0.076 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.18 UJ	0.17 U	0.19 U	0.16 U	0.16 UJ
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.18 U	0.17 U	0.19 U	0.16 U	0.16 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.042 U	0.04 U	0.044 U	0.038 U	0.038 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.042 U	0.04 U	0.044 U	0.038 U	0.038 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.18 U	0.17 U	0.19 U	0.16 U	0.16 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.042 U	0.04 U	0.044 U	0.038 U	0.038 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.18 U	0.17 U	0.19 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.042 U	0.04 U	0.044 U	0.038 U	0.038 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.042 U	0.04 U	0.044 U	0.038 U	0.038 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.17 U	0.19 U	0.16 U	0.16 U
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.084 U	0.079 UJ	0.087 UJ	0.076 UJ	0.076 U
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.084 U	0.079 U	0.087 U	0.076 U	0.076 U
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.042 U	0.04 U	0.044 U	0.038 U	0.038 U
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.18 U	0.17 U	0.19 U	0.16 U	0.16 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.084 U	0.079 U	0.087 U	0.076 U	0.076 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.18 UJ	0.17 UJ	0.19 UJ	0.16 UJ	0.16 UJ
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.3 U	0.28 U	0.31 U	0.27 U	0.27 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.17 U	0.19 U	0.16 U	0.16 U
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.18 U	0.17 U	0.19 U	0.16 U	0.16 U

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-25 12 - 14 03/27/01	RFI-36-25R 1 - 3 12/15/01	RFI-36-25R 7 - 9 12/15/01	RFI-36-25R 11 - 13 12/15/01	RFI-36-26 0 - 2 03/27/01
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.042 U	0.04 U	0.044 U	0.038 U	0.038 U
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.042 U	0.04 U	0.044 U	0.038 U	0.038 U
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.042 U	0.04 U	0.044 U	0.038 U	0.038 U
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.042 U	0.04 U	0.044 U	0.038 U	0.038 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.042 U	0.04 U	0.044 U	0.038 U	0.038 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.042 U	0.04 U	0.044 U	0.038 U	0.038 U
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.042 U	0.04 U	0.044 U	0.038 U	0.038 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.084 U	0.079 U	0.087 U	0.076 U	0.076 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.042 U	0.04 U	0.044 U	0.038 U	0.038 U
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.042 U	0.04 U	0.044 U	0.038 U	0.038 U
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.77 U	0.85 U	0.73 U	0.72 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.79 U	0.77 U	0.85 U	0.73 U	0.72 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.77 U	0.85 U	0.73 U	0.72 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.4 U	0.39 UJ	0.43 UJ	0.37 UJ	0.36 U
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.79 U	0.77 U	0.85 U	0.73 U	0.72 UJ
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.77 U	0.85 U	0.73 U	0.72 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.79 U	0.77 U	0.85 U	0.73 U	0.72 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.79 UJ	0.77 U	0.85 U	0.73 U	0.72 UJ
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.77 U	0.85 U	0.73 U	0.72 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.77 U	0.85 U	0.73 U	0.72 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.77 U	0.85 U	0.73 U	0.72 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-25 12 - 14 03/27/01	RFI-36-25R 1 - 3 12/15/01	RFI-36-25R 7 - 9 12/15/01	RFI-36-25R 11 - 13 12/15/01	RFI-36-26 0 - 2 03/27/01
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.21 UJ	0.19 UJ	0.18 U
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.0406 J	0.21 U	0.19 U	0.18 UJ
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.2 U	0.0418 J	0.21 U	0.19 U	0.18 UJ
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 UJ
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.21 UJ	0.19 UJ	0.18 UJ
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 UJ
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.039 U	0.038 U	0.042 U	0.036 U	0.035 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.142 J
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.0525 J	0.21 U	0.19 U	0.18 UJ
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.2 U	0.0594 J	0.21 U	0.19 U	0.18 UJ
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 UJ
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.21 U	0.0879 J	0.18 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 UJ
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.2 U	0.0655 J	0.21 U	0.19 U	0.16 J
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 UJ
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.2 U	0.0644 J	0.21 U	0.19 U	0.18 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.079 U	0.077 U	0.085 U	0.073 U	0.072 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.79 U	0.77 U	0.85 U	0.73 U	0.72 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.2 UJ	0.116 J	0.21 U	0.19 U	0.207 J
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.21 U	0.19 U	0.18 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.2 U	0.0855 J	0.21 U	0.19 U	0.201 J
PCB												
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.04 U	0.044 U	0.038 U	0.036 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.04 U	0.044 U	0.038 U	0.036 U

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-25 12 - 14 03/27/01	RFI-36-25R 1 - 3 12/15/01	RFI-36-25R 7 - 9 12/15/01	RFI-36-25R 11 - 13 12/15/01	RFI-36-26 0 - 2 03/27/01
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.04 U	0.044 U	0.038 U	0.036 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.04 U	0.044 U	0.038 U	0.036 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.04 U	0.044 U	0.038 U	0.036 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.04 U	0.044 U	0.038 U	0.06
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.04 U	0.044 U	0.038 U	0.036 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.041 U	0.04 U	0.044 U	0.038 U	0.06
Inorganic												
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.31 UJ	R	R	R	0.41 UJ
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	3.8	3 J	**6.8 J (SDBL (2013))**	2.4 J	3.3
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	8.7 J	26	73	5.8	17 J
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.13 J	0.29 J	0.86 J	0.2 J	0.22 U
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.13 J	0.13 J	0.21 J	0.079 J	0.083 J
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	5.1 J	13 J	**21 J (SDBL (2013))**	4.7 J	13 J
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	3.2	3.4 J	**13 J (SDBL (2013))**	3.6 J	4.1
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	7.4 J	13 J	15 J	5.9 J	16 J
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.2 U	0.1 J	0.2 U	0.2 U	0.2 U
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	4.9 J	10 J	12 J	3.9 J	8.5 J
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	160	260 J	**630 J (SDBL (2013))**	92 J	160
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.08 U	0.0299 J	0.086 U	0.076 U	0.071 U
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	8	10	**32 (SDBL (2013))**	5.4	10
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	**1.2 U**	0.24 J	0.28 J	0.088 U	**1.6 U**
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.033 J	0.041 J	0.084 J	0.029 J	0.23 J
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.072 J	0.071 J	0.28 J	0.028 J	0.26 U
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	9.7	13	26	9.9	5.7
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	29	34 J	**50 J (SDBL (2013))**	24 J	17
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	851,000	869,000	792,000	917,000	933,000

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-26 2 - 4 03/27/01	RFI-36-26 8 - 10 03/27/01	RFI-36-26 10 - 12 03/27/01	RFI-36-27 0 - 2 03/26/01	RFI-36-27 8 - 10 03/26/01
VOC												
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.036 U	0.038 U	0.036 U	0.038 U	0.037 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.071 U	0.076 U	0.073 U	0.076 U	0.075 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.15 UJ	0.16 U	0.16 U	0.16 U	0.16 U
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.036 U	0.038 U	0.036 U	0.038 U	0.037 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	1.6	0.038 U	0.41	0.038 U	0.037 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.14	0.038 U	0.047	0.038 U	0.037 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.15 U	0.16 U	0.16 U	0.16 U	0.16 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.15 U	0.16 U	0.16 U	0.16 U	0.16 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.15 U	0.16 U	0.16 U	0.16 U	0.16 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.071 U	0.076 U	0.073 U	0.076 U	0.075 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.036 U	0.038 U	0.036 U	0.038 U	0.037 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.036 U	0.038 U	0.036 U	0.038 U	0.037 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.071 U	0.076 U	0.073 U	0.076 U	0.075 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.071 U	0.076 U	0.073 U	0.076 U	0.075 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.039 J	0.27 U	0.26 U	0.27 U	0.27 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.26 U	0.27 U	0.26 U	0.27 U	0.27 U
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.26 U	0.27 U	0.26 U	0.27 U	0.27 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.074 J	0.27 U	0.26 U	0.27 U	0.27 U
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.036 U	0.038 U	0.036 U	0.038 U	0.037 U
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.071 U	0.076 U	0.073 U	0.076 U	0.075 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.071 U	0.076 U	0.073 U	0.076 U	0.075 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.15 UJ	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.15 U	0.16 U	0.16 U	0.16 U	0.16 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.036 U	0.038 U	0.036 U	0.038 U	0.037 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.036 U	0.038 U	0.036 U	0.038 U	0.037 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.15 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.036 U	0.038 U	0.036 U	0.038 U	0.037 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.15 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.21	0.038 U	0.053	0.038 U	0.037 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.036 U	0.038 U	0.036 U	0.038 U	0.037 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.15 U	0.16 U	0.16 U	0.16 U	0.16 U
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.071 U	0.076 U	0.073 U	0.076 U	0.075 U
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.071 UJ	0.076 U	0.073 U	0.076 U	0.075 U
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.036 U	0.038 U	0.036 U	0.038 U	0.037 U
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.15 U	0.16 U	0.16 U	0.16 U	0.16 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.071 U	0.076 U	0.073 U	0.076 U	0.075 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.15 UJ	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.26 U	0.27 U	0.26 U	0.27 U	0.27 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.15 U	0.16 U	0.16 U	0.16 U	0.16 U
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.038 J	0.16 U	0.16 U	0.16 U	0.16 U

Table G-3

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RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-26 2 - 4 03/27/01	RFI-36-26 8 - 10 03/27/01	RFI-36-26 10 - 12 03/27/01	RFI-36-27 0 - 2 03/26/01	RFI-36-27 8 - 10 03/26/01
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.036 U	0.038 U	0.036 U	0.038 U	0.037 U
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.036 U	0.038 U	0.036 U	0.038 U	0.037 U
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.036 U	0.038 U	0.036 U	0.038 U	0.037 U
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.036 U	0.038 U	0.036 U	0.038 U	0.037 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.036 U	0.038 U	0.036 U	0.038 U	0.037 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.036 U	0.038 U	0.036 U	0.038 U	0.037 U
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.16	0.038 U	0.085	0.038 U	0.037 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.071 U	0.076 U	0.073 U	0.076 U	0.075 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.036	0.038 U	0.036 U	0.038 U	0.037 U
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.036 U	0.038 U	0.036 U	0.038 U	0.037 U
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.71 U	0.72 U	0.7 U	0.72 U	0.72 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.71 U	0.72 U	0.7 U	0.72 U	0.72 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.71 U	0.72 U	0.7 U	0.72 U	0.72 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.36 U	0.36 U	0.35 U	0.36 U	0.37 U
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.71 U	0.72 U	0.7 U	0.72 U	0.72 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.71 U	0.72 U	0.7 U	0.72 U	0.72 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.71 U	0.72 U	0.7 U	0.72 U	0.72 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.71 UJ	0.72 UJ	0.7 UJ	0.72 UJ	0.72 UJ
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.71 U	0.72 U	0.7 U	0.72 U	0.72 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.71 U	0.72 U	0.7 U	0.72 U	0.72 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.71 U	0.72 U	0.7 U	0.72 U	0.72 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-26 2 - 4 03/27/01	RFI-36-26 8 - 10 03/27/01	RFI-36-26 10 - 12 03/27/01	RFI-36-27 0 - 2 03/26/01	RFI-36-27 8 - 10 03/26/01
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.035 U	0.035 U	0.034 U	0.035 U	0.035 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.0846 J	0.18 U
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.0498 J	0.18 U
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.18 U	0.18 U	0.18 U	0.048 J	0.18 U
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.18 UJ	0.18 U	0.18 U	0.18 U	0.18 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.071 U	0.072 U	0.07 U	0.072 U	0.072 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.71 U	0.72 U	0.7 U	0.72 U	0.72 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.209 J	0.18 U	0.18 U	0.0729 J	0.18 U
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.18 U	0.18 U	0.18 U	0.0405 J	0.18 U
PCB												
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	R	0.036 U	0.036 U	0.037 U	0.038 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	R	0.036 U	0.036 U	0.037 U	0.038 U

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-26 2 - 4 03/27/01	RFI-36-26 8 - 10 03/27/01	RFI-36-26 10 - 12 03/27/01	RFI-36-27 0 - 2 03/26/01	RFI-36-27 8 - 10 03/26/01
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	R	0.036 U	0.036 U	0.037 U	0.038 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	R	0.036 U	0.036 U	0.037 U	0.038 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	R	0.036 U	0.036 U	0.037 U	0.038 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	R	0.036 U	0.036 U	0.037 U	0.038 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	R	0.036 U	0.036 U	0.037 U	0.038 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	R	0.036 U	0.036 U	0.037 U	0.038 U
Inorganic												
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.33 UJ	0.28 UJ	0.33 UJ	0.46 J	0.32 UJ
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	4.6	2.4	2.7	3.4	3.9
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	15 J	11 J	9.1 J	19 J	26 J
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.18 U	0.072 J	0.18 U	0.15 J	0.21
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.11 J	0.068 J	0.13 J	0.16 J	0.079 J
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	**28 J (SDBL (2013))**	3.4 J	5.8 J	8.7 J	5.7 J
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	3.5	1.8	2.2	6	3.5
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	**34 J (SDBL (2013))**	6.9 J	11 J	**66 J (SDBL (2013))**	9.2 J
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	11 J	3.2 J	3.6 J	7.4 J	4.6 J
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	210	91	110	130	130
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.073 U	0.074 U	0.073 U	0.073 U	0.072 U
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	16	4.5	5.7	6.8	8.9
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	**1.3 U**	**1.1 U**	**1.3 U**	**1.9 U**	**1.3 U**
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.066 J	0.081 U	0.058 J	0.25 J	0.046 J
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.21 U	0.18 U	0.095 J	0.3 U	0.2 U
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	8.2	5.2	6.1	7.7	8.6
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	16	16	18	34	25
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	939,000	933,000	962,000	937,000	930,000

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-27 12 - 14 03/26/01	RFI-36-27 14 - 16 03/26/01	RFI-36-49 1 - 3 04/05/03	RFI-36-49 7 - 9 04/05/03	RFI-36-49 17 - 19 04/05/03
VOC												
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.037 U	0.039 U	0.037 U	0.039 U	0.037 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.073 U	0.077 U	0.073 U	0.078 U	0.074 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.16 U	0.17 U	0.16 U	0.17 U	0.16 U
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.037 U	0.039 U	0.037 U	0.039 U	0.037 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.037 U	0.039 U	0.036 J	0.039 U	0.037 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.037 U	0.039 U	0.037 U	0.039 U	0.037 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.16 U	0.17 U	0.16 U	0.17 U	0.16 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.16 U	0.17 U	0.16 U	0.17 U	0.16 UJ
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.16 U	0.17 U	0.16 U	0.17 U	0.16 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.073 U	0.077 U	0.073 U	0.078 U	0.074 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.037 U	0.039 U	0.037 U	0.039 U	0.037 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.037 U	0.039 U	0.037 U	0.039 U	0.037 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.073 U	0.077 U	0.073 U	0.078 U	0.074 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.073 U	0.077 U	0.073 U	0.078 U	0.074 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.26 U	0.28 U	0.31 UJ	0.34 UJ	0.32 UJ
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.26 U	0.28 U	0.073 U	0.078 U	0.074 U
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.26 U	0.28 U	1.6 U	1.7 U	1.6 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.26 U	0.28 U	0.31 U	0.06 J	0.32 U
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.037 U	0.039 U	0.037 U	0.039 U	0.037 U
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.073 U	0.077 U	0.073 U	0.078 U	0.074 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.073 U	0.077 U	0.073 U	0.078 U	0.074 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.16 UJ	0.17 UJ	0.16 U	0.17 UJ	0.16 U
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.16 U	0.17 U	0.16 U	0.17 U	0.16 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.037 U	0.039 U	0.037 U	0.039 U	0.037 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.037 U	0.039 U	0.037 U	0.039 U	0.037 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.16 U	0.17 U	0.16 U	0.17 U	0.16 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.037 U	0.039 U	0.037 U	0.039 U	0.037 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.16 U	0.17 U	0.16 U	0.17 U	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.037 U	0.039 U	0.037 U	0.039 U	0.037 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.037 U	0.039 U	0.037 U	0.039 U	0.037 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.16 U	0.17 U	0.16 U	0.17 U	0.16 U
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.073 U	0.077 U	0.073 U	0.078 U	0.074 U
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.073 U	0.077 U	0.073 U	0.078 U	0.074 U
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.037 U	0.039 U	0.037 U	0.039 U	0.037 U
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.16 U	0.17 U	0.16 U	0.17 U	0.16 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.073 U	0.058 J	0.073 U	0.078 U	0.046 J
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.16 UJ	0.17 UJ	0.06 J	0.12 J	0.16 UJ
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.26 U	0.28 U	0.16 U	0.17 U	0.16 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.16 U	0.17 U	0.16 U	0.17 U	0.16 U
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.16 U	0.17 U	0.15 J	0.13 J	0.15 J

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-27 12 - 14 03/26/01	RFI-36-27 14 - 16 03/26/01	RFI-36-49 1 - 3 04/05/03	RFI-36-49 7 - 9 04/05/03	RFI-36-49 17 - 19 04/05/03
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.037 U	0.053	0.037 U	0.039 U	0.037 U
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.037 U	0.039 U	0.037 U	0.039 U	0.037 U
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.037 U	0.039 U	0.037 U	0.039 U	0.037 U
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.037 U	0.039 U	0.073 U	0.078 U	0.074 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.037 U	0.039 U	0.037 U	0.039 U	0.037 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.037 U	0.039 U	0.037 U	0.039 U	0.037 U
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.037 U	0.039 U	0.037 U	0.039 U	0.037 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.073 U	0.077 U	0.073 U	0.078 U	0.074 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.037 U	0.039 U	0.073 U	0.078 U	0.074 U
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.037 U	0.053	0.037 U	0.039 U	0.037 U
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	4.4 U	0.2 U	4.5 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	4.4 U	0.2 U	4.5 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 UJ	4.4 U	0.2 U	4.5 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 UJ	4.4 U	0.2 U	4.5 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	4.4 U	0.2 U	4.5 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	4.4 U	0.2 U	4.5 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.69 U	0.73 UJ	18 U	0.78 U	18 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.69 U	0.73 UJ	18 U	0.78 U	18 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 UJ	4.4 U	0.2 U	4.5 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.19 UJ	4.4 U	0.2 U	4.5 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.18 U	0.19 U	4.4 U	0.2 U	4.5 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.344	1.28	4.4 U	0.2 U	1.66 J
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	4.4 U	0.2 U	4.5 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.69 U	0.73 UJ	18 U	0.78 U	18 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	4.4 U	0.2 U	4.5 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.35 U	0.37 U	8.9 UJ	0.39 UJ	9 UJ
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.69 UJ	0.73 UJ	18 U	0.78 U	18 UJ
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.69 U	0.73 UJ	18 U	0.78 U	18 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.69 U	0.73 UJ	18 U	0.78 U	18 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	4.4 U	0.2 U	4.5 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	4.4 U	0.2 U	4.5 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.69 U	0.73 UJ	18 U	0.78 U	18 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.69 U	0.73 UJ	18 U	0.78 U	18 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.69 U	0.73 UJ	18 U	0.78 UJ	18 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.69 U	0.73 UJ	18 U	0.78 U	18 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.18 U	0.19 UJ	4.4 U	0.2 U	4.5 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.18 U	0.19 UJ	4.4 U	0.2 U	4.5 U

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-27 12 - 14 03/26/01	RFI-36-27 14 - 16 03/26/01	RFI-36-49 1 - 3 04/05/03	RFI-36-49 7 - 9 04/05/03	RFI-36-49 17 - 19 04/05/03
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.18 U	0.19 U	4.4 U	0.2 U	4.5 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.18 U	0.19 UJ	4.4 U	0.2 U	4.5 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 UJ	4.4 U	0.2 U	4.5 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	4.4 UJ	0.2 U	4.5 UJ
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.203 J	4.4 U	0.2 U	4.5 UJ
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 UJ	4.4 UJ	0.2 U	4.5 UJ
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.18 UJ	0.19 UJ	4.4 UJ	0.2 U	4.5 UJ
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 UJ	4.4 U	0.2 U	4.5 U
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 UJ	4.4 UJ	0.2 U	4.5 UJ
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	4.4 U	0.2 U	4.5 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.034 U	0.036 U	0.86 U	0.038 U	0.88 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 UJ	4.4 U	0.2 U	4.5 UJ
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 UJ	4.4 U	0.2 U	4.5 UJ
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	4.4 U	0.2 U	4.5 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 UJ	4.4 U	0.2 U	4.5 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.18 UJ	0.427 J	4.4 U	0.2 U	4.5 UJ
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 UJ	4.4 U	0.2 U	4.5 U
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.18 U	0.19 UJ	4.4 U	0.2 U	4.5 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 UJ	4.4 U	0.2 U	4.5 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 UJ	4.4 U	0.2 U	4.5 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 UJ	4.4 U	0.2 U	4.5 U
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 UJ	4.4 UJ	0.2 U	4.5 UJ
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.18 U	0.717 J	4.4 U	0.2 U	4.5 U
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.18 U	0.19 UJ	4.4 U	0.2 U	4.5 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.18 U	0.19 UJ	4.4 U	0.2 U	4.5 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.18 U	0.19 U	4.4 U	0.2 U	4.5 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.18 U	0.19 UJ	4.4 U	0.2 U	4.5 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.18 U	0.19 U	4.4 U	0.2 U	4.5 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 UJ	4.4 U	0.2 U	4.5 U
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	4.4 U	0.2 U	4.5 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	4.4 U	0.2 U	4.5 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.18 U	0.22	4.4 U	0.2 U	4.5 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.069 U	0.073 U	1.8 U	0.078 U	1.8 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	4.4 U	0.2 U	4.5 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 UJ	4.4 U	0.2 U	4.5 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.69 U	0.73 UJ	18 U	0.78 U	18 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	4.62 JD	10.4 JD	2.25 J	0.2 U	5.97
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	4.4 U	0.2 U	4.5 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.797 J	1.31 J	4.4 U	0.2 U	2.26 J
PCB												
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.034 U	0.038 U	0.037 U	0.041 U	0.037 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.034 U	0.038 U	0.037 U	0.041 U	0.037 U

Table G-3

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Northwest Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-27 12 - 14 03/26/01	RFI-36-27 14 - 16 03/26/01	RFI-36-49 1 - 3 04/05/03	RFI-36-49 7 - 9 04/05/03	RFI-36-49 17 - 19 04/05/03
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.034 U	0.038 U	0.037 U	0.041 U	0.037 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.034 U	0.038 U	0.037 U	0.041 U	0.037 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.034 U	0.038 U	0.037 U	0.041 U	0.037 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.034 U	0.038 U	0.037 U	0.041 U	0.039
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.034 U	0.038 U	0.037 U	0.041 U	0.037 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.034 U	0.038 U	0.037 U	0.041 U	0.039
Inorganic												
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.35 UJ	0.4 UJ	0.042 J	0.16 UJ	0.037 J
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	1.7	3.3	2.3 J	4.5 J	2.7 J
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	5.7 J	10 J	15	65	8.3
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.071 J	0.11 J	0.1 J	0.34 J	0.11 J
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.076 J	0.088 J	0.071 U	0.17	0.048 U
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	3.5 J	4.8 J	8.8	15	4
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	1.6	2.6	1.7 J	**7.5 J (SDBL (2013))**	1.3 J
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	11 J	22 J	8.9 J	8.9 J	3.4 J
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	2.8 J	5.2 J	5.8 J	11 J	3.4 J
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	95	140	120	**470 (SDBL (2013))**	59
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.07 U	0.066 U	0.0443 J	0.0536 J	0.0446 J
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	4.2	6.6	5.9 J	13 J	4.1 J
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	**1.4 U**	**1.6 U**	0.07 J	0.23 J	0.082 J
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.1 U	0.052 J	0.13 J	0.049 J	0.019 J
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.22 U	0.26 U	0.039 J	0.15 J	0.031 J
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	4.9	7.5	8.3 J	24 J	8.3 J
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	15	25	18 J	47 J	17 J
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	971,000	914,000	956,000	863,000	940,000

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-07 0.8 - 2 12/20/00	RFI-36-07 8 - 10 12/20/00	RFI-36-07 12 - 14 12/20/00	RFI-36-08 1 - 3 07/17/01
VOC											
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.037 U	0.043 U	2 U	0.044 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.037 U	0.043 U	2 U	0.089 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	0.19 U
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.037 U	0.043 U	2 U	0.044 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.037 U	0.043 U	2 U	0.044 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.037 U	0.043 U	**2 U**	0.044 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	0.19 U
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	0.19 UJ
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	0.19 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	0.089 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.037 U	0.043 U	2 U	0.044 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	0.074 U	0.086 U	4 U	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.037 U	0.043 U	2 U	0.044 U
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	0.089 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	0.089 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.26 U	0.31 U	14 U	0.32 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.16 U	0.18 U	8.5 U	0.32 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.16 U	0.18 U	8.5 U	0.32 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.58 U	0.4 U	14 U	0.32 U
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.037 U	0.043 U	**240 (NSVIA (2013),NVSICI (2013))**	0.044 U
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.037 U	0.043 U	2 U	0.089 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.037 U	0.043 U	2 U	0.089 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.16 U	0.18 U	**8.5 U**	0.19 U
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.16 U	0.18 U	8.5 U	0.19 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.037 U	0.043 U	**2 U**	0.044 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.037 U	0.043 U	2	0.044 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.16 U	0.18 U	8.5 U	0.19 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.037 U	0.043 U	2 U	0.044 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.16 U	0.18 U	8.5 U	0.19 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.037 U	0.043 U	2 U	0.044 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.037 U	0.043 U	2 U	0.044 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.19 U
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.037 U	0.043 U	2 U	0.089 U
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	0.089 U
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.037 U	0.043 U	**680 D (CSAT (2013),NSVIA (2013))**	0.044 U

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-07 0.8 - 2 12/20/00	RFI-36-07 8 - 10 12/20/00	RFI-36-07 12 - 14 12/20/00	RFI-36-08 1 - 3 07/17/01
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	0.19 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.074 U	0.086 U	1,800 D	0.038 J
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.093 J
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	0.32 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.19 U
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.16 U	0.18 U	8.5 U	0.19 UJ
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.037 U	0.043 U	680 D	0.044 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.037 U	0.043 U	2 U	0.044 U
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.037 U	0.043 U	2 U	0.044 U
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.037 U	0.19	**4,100 D (CSAT (2013),NSVIA (2013),NVSICI (2013))**	0.044 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.037 U	0.043 U	2 U	0.044 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.037 U	0.043 U	2 U	0.044 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.037 U	0.043 U	**2 U**	0.044 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	0.089 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.037 U	0.043 U	2 U	0.044 U
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.037 U	0.043 U	**680 (CSAT (2013))**	0.044 U
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.21 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	9.3 U	0.18 U	38 U	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	9.3 U	0.18 U	38 U	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	9.3 U	0.18 U	38 U	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	9.3 U	0.18 U	38 U	NA
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	9.3 UJ	0.18 UJ	38 UJ	0.21 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	9.3 U	0.18 U	38 U	0.21 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	9.3 U	0.18 U	38 U	0.21 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	9.3 U	0.18 U	38 U	0.21 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	9.3 U	0.18 U	38 U	0.21 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	37 UJ	0.7 UJ	150 UJ	0.85 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	9.3 U	0.18 U	38 U	0.85 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	9.3 U	0.18 U	38 U	0.21 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	9.3 U	0.18 U	38 U	0.21 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	9.3 U	0.18 U	38 U	0.21 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	9.3 U	0.18 U	38 U	0.21 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	9.3 U	0.18 U	38 U	0.21 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	37 U	0.7 U	150 U	0.85 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	9.3 U	0.18 U	38 U	0.21 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	18 U	0.35 U	73 U	0.43 UJ

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-07 0.8 - 2 12/20/00	RFI-36-07 8 - 10 12/20/00	RFI-36-07 12 - 14 12/20/00	RFI-36-08 1 - 3 07/17/01
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	**37 UJ**	0.7 UJ	**150 UJ**	0.85 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	37 U	0.7 U	150 U	0.85 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	37 U	0.7 U	150 U	0.85 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	9.3 U	0.18 U	38 U	0.21 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	9.3 U	0.18 U	38 U	0.21 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	37 UJ	0.7 UJ	150 UJ	0.85 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	9.3 U	0.18 U	38 U	0.85 UJ
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	37 U	0.7 U	150 U	0.85 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	37 UJ	0.7 UJ	150 UJ	0.85 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	9.3 U	0.18 U	38 U	0.21 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	9.3 U	0.18 U	38 U	0.21 U
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	0.21 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	9.3 U	0.18 U	38 U	0.21 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	0.21 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.21 U
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	9.3 U	0.18 U	38 U	0.21 U
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	**9.3 U**	0.18 U	**38 U**	0.21 U
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	9.3 U	0.18 U	38 U	0.21 U
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	9.3 UJ	0.18 UJ	38 UJ	0.21 U
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	9.3 U	0.18 U	38 U	0.21 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	9.3 UJ	0.18 UJ	38 UJ	0.21 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	9.3 U	0.18 U	**38 U**	0.042 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	9.3 UJ	0.18 UJ	38 UJ	0.21 U
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	9.3 UJ	0.18 UJ	38 UJ	0.21 U
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	0.21 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	9.3 U	0.18 U	38 U	0.21 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	9.3 U	0.18 U	38 U	0.21 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	**9.3 U**	0.18 U	**38 U**	0.21 U
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	9.3 U	0.18 U	38 U	0.21 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	9.3 U	0.18 U	38 U	0.21 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	9.3 U	0.18 U	38 U	0.21 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	9.3 U	0.18 U	38 U	0.21 U
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	9.3 U	0.237	38 U	0.21 U
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	9.3 U	0.18 U	38 U	0.21 U
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	9.3 U	0.18 U	38 U	0.21 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	9.3 U	0.18 U	**38 U**	0.21 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	9.3 U	0.18 U	38 U	0.21 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	9.3 U	0.18 U	38 U	0.21 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	9.3 U	0.18 U	38 U	0.21 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	9.3 UJ	0.18 UJ	38 UJ	0.21 U
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	9.3 U	0.18 U	38 U	0.21 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	9.3 U	0.18 U	38 U	0.21 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	9.3 U	0.18 U	43.8 D	0.21 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	9.3 U	0.18 U	38 U	0.085 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	**9.3 UJ**	0.18 UJ	**38 UJ**	0.21 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	9.3 U	0.18 U	38 U	0.21 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	9.3 U	0.18 U	38 U	0.85 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	9.3 U	0.18 U	38 U	0.21 U

Table G-4

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Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-07 0.8 - 2 12/20/00	RFI-36-07 8 - 10 12/20/00	RFI-36-07 12 - 14 12/20/00	RFI-36-08 1 - 3 07/17/01
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	9.3 U	0.18 U	38 U	0.21 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	9.3 U	0.18 U	38 U	0.21 U
PCB											
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	0.044 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	0.044 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	0.044 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	0.044 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	0.044 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	0.044 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	0.044 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	NA	NA	NA	0.044 U
TPH											
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C6-C10) GRO	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Inorganic											
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	R
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	4.8 J	3 J	3.8 J	4
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	19 J	7.8 J	12 J	19
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	0.16
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.15	0.079	0.16	0.12
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	13	3.8	7	11
Chromium VI (Hexavalent)	mg/kg	{NA}	9,200	240	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	3.2
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	14
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	0.047 J
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	8.7	3.5	4.8	6.4
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	200 J
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.021 U	0.02 U	0.022 U	0.033 J
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	11
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	0.17 U	0.18 U	0.19	0.28 J
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.42 U	0.44 U	**2.4 (SDBL (2013))**	0.056 J
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	0.062 J
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	11
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	28
Miscellaneous											
Percent Moisture	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	913,000	954,000	904,000	792,000

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-08 7 - 9 07/17/01	RFI-36-29 0 - 2 03/28/01	RFI-36-29 8 - 10 03/28/01	RFI-36-29 10 - 12 03/28/01
VOC											
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.04 UJ	0.039 U	0.036 U	0.036 U [0.036 U]
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.081 UJ	0.079 U	0.071 U	0.072 U [0.072 U]
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.17 UJ	0.17 UJ	0.15 UJ	0.16 UJ [0.15 UJ]
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.04 UJ	0.039 U	0.036 U	0.036 U [0.036 U]
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.04 UJ	0.039 U	0.036 U	0.036 U [0.036 U]
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.04 UJ	0.039 U	0.036 U	0.036 U [0.036 U]
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.17 UJ	0.17 U	0.15 U	0.16 U [0.15 U]
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.17 UJ	0.17 U	0.15 U	0.16 U [0.15 U]
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.17 UJ	0.17 U	0.15 U	0.16 U [0.15 U]
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.081 UJ	0.079 U	0.071 U	0.072 U [0.072 U]
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.04 UJ	0.039 U	0.036 U	0.036 U [0.036 U]
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.04 UJ	0.039 U	0.036 U	0.036 U [0.036 U]
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.081 UJ	0.079 U	0.071 U	0.072 U [0.072 U]
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.081 UJ	0.079 U	0.071 U	0.072 U [0.072 U]
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.29 UJ	0.28 U	0.25 U	0.26 U [0.037 J]
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.29 UJ	0.28 UJ	0.25 UJ	0.26 UJ [0.26 UJ]
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.29 UJ	0.28 U	0.25 U	0.26 U [0.26 U]
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.29 UJ	0.056 J	0.08 J	0.26 UJ [0.062 J]
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	1.4 J	0.039 U	0.036 U	0.23 [0.19]
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.081 UJ	0.079 U	0.071 U	0.072 U [0.072 U]
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.081 UJ	0.079 U	0.071 U	0.072 U [0.072 U]
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.17 UJ	0.17 UJ	0.15 UJ	0.16 UJ [0.15 UJ]
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.17 UJ	0.17 U	0.15 U	0.16 U [0.15 U]
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.04 UJ	0.039 U	0.036 U	0.036 U [0.036 U]
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.04 UJ	0.039 U	0.036 U	0.036 U [0.036 U]
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.17 UJ	0.17 U	0.15 U	0.16 U [0.15 U]
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.04 UJ	0.039 U	0.036 U	0.036 U [0.036 U]
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.17 UJ	0.17 U	0.15 U	0.16 U [0.15 U]
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.04 UJ	0.039 U	0.036 U	0.036 U [0.036 U]
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.04 UJ	0.039 U	0.036 U	0.036 U [0.036 U]
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.17 UJ	0.17 U	0.15 U	0.16 U [0.15 U]
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.081 UJ	0.079 U	0.071 U	0.072 U [0.072 U]
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.081 UJ	0.079 UJ	0.071 UJ	0.072 UJ [0.072 U]
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	25 D	0.039 U	0.036 U	0.047 [0.042]

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
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RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-08 7 - 9 07/17/01	RFI-36-29 0 - 2 03/28/01	RFI-36-29 8 - 10 03/28/01	RFI-36-29 10 - 12 03/28/01
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	3 J	0.17 U	0.15 U	0.16 U [0.15 U]
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	63 D	0.079 U	0.071 U	0.072 U [0.072 U]
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.17 UJ	0.17 UJ	0.15 UJ	0.16 UJ [0.15 UJ]
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.29 UJ	0.28 U	0.25 U	0.26 U [0.26 U]
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	15 D	0.12 J	0.15 U	0.073 J [0.069 J]
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.064 J	0.17 U	0.039 J	0.16 U [0.15 U]
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	24 D	0.039 U	0.036 U	0.036 U [0.036 U]
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.04 UJ	0.039 U	0.036 U	0.036 U [0.036 U]
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.04 UJ	0.039 U	0.036 U	0.036 U [0.036 U]
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	25 D	0.039 U	0.036 U	0.036 U [0.036 U]
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.04 UJ	0.039 U	0.036 U	0.036 U [0.036 U]
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.04 UJ	0.039 U	0.036 U	0.036 U [0.036 U]
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.04 UJ	0.039 U	0.036 U	0.036 U [0.036 U]
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.081 UJ	0.079 U	0.071 U	0.072 U [0.072 U]
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.04 UJ	0.039 U	0.036 U	0.036 U [0.036 U]
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	24	0.039 U	0.036 U	0.036 U [0.036 U]
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.0595 J	0.19 U	0.17 U	0.18 U [0.0967 J]
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.75 U	0.69 U	0.69 U [0.69 U]
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.79 U	0.75 U	0.69 U	0.69 U [0.69 U]
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	1.87	2.87 J	0.178 J	0.389 J [0.739 J]
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.75 U	0.69 U	0.69 U [0.69 U]
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.4 UJ	0.38 U	0.35 U	0.35 U [0.35 U]

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
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RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-08 7 - 9 07/17/01	RFI-36-29 0 - 2 03/28/01	RFI-36-29 8 - 10 03/28/01	RFI-36-29 10 - 12 03/28/01
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.79 U	0.75 UJ	0.69 U	0.69 UJ [0.69 UJ]
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.75 U	0.69 U	0.69 U [0.69 U]
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.79 U	0.75 UJ	0.69 U	0.69 UJ [0.69 UJ]
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	0.17 U	0.18 UJ [0.18 UJ]
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.75 UJ	0.69 UJ	0.69 UJ [0.69 UJ]
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.79 UJ	0.75 UJ	0.69 U	0.69 U [0.69 U]
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.75 U	0.69 U	0.69 U [0.69 U]
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.79 U	0.75 U	0.69 U	0.69 U [0.69 U]
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.2 U	0.19 UJ	0.17 U	0.18 UJ [0.134 J]
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.19 UJ	0.17 U	0.18 U [0.18 UJ]
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.2 UJ	0.19 U	0.17 U	0.18 U [0.18 U]
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.233 J	0.17 U	0.18 UJ [0.404 J]
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.2 UJ	0.19 UJ	0.17 U	0.18 UJ [0.18 UJ]
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.2 UJ	0.19 UJ	0.17 U	0.18 UJ [0.18 UJ]
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.2 UJ	0.19 UJ	0.17 U	0.18 UJ [0.18 UJ]
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.2 UJ	0.19 UJ	0.17 U	0.18 UJ [0.18 UJ]
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.039 U	0.037 U	0.034 U	0.034 U [0.034 U]
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 UJ	0.17 U	0.18 UJ [0.18 UJ]
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 UJ	0.17 U	0.18 UJ [0.18 UJ]
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 UJ	0.17 U	0.18 UJ [0.18 UJ]
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.2 U	0.464 J	0.17 U	0.18 UJ [0.919 J]
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.2 UJ	0.19 UJ	0.17 U	0.18 UJ [0.18 UJ]
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 UJ	0.17 U	0.18 UJ [0.18 UJ]
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.2 UJ	0.19 UJ	0.17 U	0.18 UJ [0.18 UJ]
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.0524 J	0.19 UJ	0.17 U	0.18 UJ [0.18 UJ]
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.0747 J	0.19 U	0.17 U	0.18 U [0.234]
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.2 U	0.19 UJ	0.17 U	0.18 UJ [0.18 UJ]
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.2 UJ	0.19 UJ	0.17 U	0.18 UJ [0.18 UJ]
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	3.18	0.19 U	0.17 U	0.18 U [0.18 U]
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.079 U	0.075 U	0.069 U	0.069 U [0.069 U]
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 UJ	0.17 U	0.18 UJ [0.18 UJ]
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.79 U	0.75 UJ	0.69 U	0.69 U [0.69 UJ]
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.117 J	1.24 J	0.17 U	0.18 UJ [1.93 J]

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-08 7 - 9 07/17/01	RFI-36-29 0 - 2 03/28/01	RFI-36-29 8 - 10 03/28/01	RFI-36-29 10 - 12 03/28/01
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.17 U	0.18 U [0.18 U]
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.0861 J	1.26 J	0.17 U	0.18 UJ [1.31 J]
PCB											
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.037 U	0.036 U	0.036 U [0.036 U]
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.037 U	0.036 U	0.036 U [0.036 U]
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.037 U	0.036 U	0.036 U [0.036 U]
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.037 U	0.036 U	0.036 U [0.036 U]
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.037 U	0.036 U	0.036 U [0.036 U]
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.037 U	0.036 U	0.036 U [0.036 U]
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.041 U	0.037 U	0.036 U	0.036 U [0.036 U]
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.041 U	0.037 U	0.036 U	0.036 U [0.036 U]
TPH											
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C6-C10) GRO	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Inorganic											
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	R	R	0.4 UJ	0.31 UJ [0.37 UJ]
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	5.7	2.3 J	2.4	2.9 [2.4]
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	30	46 J	6.2 J	9.5 J [8.3 J]
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.22	0.27 J	0.085 J	0.13 J [0.099 J]
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.75	0.14 J	0.093 J	0.14 [0.081 J]
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	12	11 J	3.3	6.7 [5.5]
Chromium VI (Hexavalent)	mg/kg	{NA}	9,200	240	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	4.3	6.2 J	1.8	3.1 [2.3]
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	**390 (SDBL (2013))**	13 J	5.2 J	9.4 J [7.2 J]
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.041 J	0.2 U	0.2 U	0.2 U [0.2 U]
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**47 (SDBL (2013))**	16 J	2.7 J	4.7 J [3.3 J]
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	430 J	**930 J (SDBL (2013))**	190	220 [160]
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.03 J	R	0.072 UJ	0.069 UJ [0.071 UJ]
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	14	11 J	4.5	8 [5.7]
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	0.4	**1.4 U**	**1.6 U**	**1.2 U [1.5 U]**
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.31	0.065 J	0.07 J	0.12 J [0.099 J]
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.09 J	0.11 J	0.26 U	0.068 J [0.23 U]
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	16	13 J	5.5	7.6 [6.7]
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	**140 (SDBL (2013))**	36 J	16 J	23 J [23 J]
Miscellaneous											
Percent Moisture	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	851,000	894,000	973,000	970,000 [971,000]

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-30 0 - 2 03/28/01	RFI-36-30 8 - 10 03/28/01	RFI-36-30 10 - 12 03/28/01	RFI-36-31 0 - 2 03/28/01	RFI-36-31 8 - 10 03/28/01
VOC												
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.037 U	0.037 U	0.035 U	0.039 U	0.038 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.074 U	0.073 U	0.071 U	0.077 U	0.077 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.16 UJ	0.16 U	0.15 UJ	0.17 UJ	0.16 UJ
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.037 U	0.037 U	0.035 U	0.039 U	0.038 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.037 U	0.037 U	0.035 U	0.039 U	0.038 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.037 U	0.037 U	0.035 U	0.039 U	0.038 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.16 U	0.16 U	0.15 U	0.17 U	0.16 U
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.16 U	0.16 U	0.15 U	0.17 U	0.16 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.16 U	0.16 U	0.15 U	0.17 U	0.16 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.074 U	0.073 U	0.071 U	0.077 U	0.077 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.037 U	0.037 U	0.035 U	0.039 U	0.038 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.037 U	0.037 U	0.035 U	0.039 U	0.038 U
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.074 U	0.073 U	0.071 U	0.077 U	0.077 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.074 U	0.073 U	0.071 U	0.077 U	0.077 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.27 U	0.26 U	0.25 U	0.041 J	0.27 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.27 UJ	0.26 UJ	0.25 UJ	0.28 UJ	0.27 UJ
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.27 U	0.26 U	0.25 U	0.85	0.27 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.094 J	0.26 UJ	0.079 J	0.078 J	0.083 J
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	1.5	**9.3 D (NSVIA (2013))**	1.3	0.039 U	0.056
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.074 U	0.073 U	0.071 U	0.077 U	0.077 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.074 U	0.073 U	0.071 U	0.077 U	0.077 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.16 UJ	0.16 UJ	0.15 UJ	0.17 UJ	0.16 UJ
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.16 U	0.16 U	0.15 U	0.17 U	0.16 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.037 U	0.037 U	0.035 U	0.039 U	0.038 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.037 U	0.037 U	0.035 U	0.039 U	0.038 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.16 U	0.16 U	0.15 U	0.17 U	0.16 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.037 U	0.037 U	0.035 U	0.039 U	0.038 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.16 U	0.16 U	0.15 U	0.17 U	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.087	0.037 U	0.035 U	0.039 U	0.038 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.037 U	0.037 U	0.035 U	0.039 U	0.038 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.16 U	0.16 U	0.15 U	0.17 U	0.16 U
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.074 U	0.073 U	0.071 U	0.077 U	0.077 U
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.074 UJ	0.073 U	0.071 UJ	0.077 UJ	0.077 UJ
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.54	28 D	7.8 D	0.039 U	0.11

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-30 0 - 2 03/28/01	RFI-36-30 8 - 10 03/28/01	RFI-36-30 10 - 12 03/28/01	RFI-36-31 0 - 2 03/28/01	RFI-36-31 8 - 10 03/28/01
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.16 U	1.4	0.56	0.17 U	0.16 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	1.4	74 D	22 D	0.077 U	0.33
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.16 UJ	0.16 UJ	0.15 UJ	0.17 UJ	0.16 UJ
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.27 U	0.26 U	0.25 U	0.28 U	0.27 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.048 J	1	0.27	0.17 U	0.16 U
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.16 U	0.16 U	0.041 J	0.12 J	0.043 J
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.45	30 D	9.7 D	0.039 U	0.13
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.037 U	0.037 U	0.035 U	0.039 U	0.038 U
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.037 U	0.037 U	0.035 U	0.039 U	0.038 U
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	3.7	100 D	21 D	0.039 U	0.4
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.037 U	0.037 U	0.035 U	0.039 U	0.038 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.037 U	0.037 U	0.035 U	0.039 U	0.038 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.049	0.14	0.035 U	0.039 U	0.038 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.074 U	0.073 U	0.071 U	0.077 U	0.077 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.037 U	0.037 U	0.035 U	0.039 U	0.038 U
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.45	30	9.7	0.039 U	0.13
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.354 J	0.19 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.72 U	0.7 U	0.7 U	0.73 U	0.74 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.72 U	0.7 U	0.7 U	0.73 U	0.74 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.18 UJ	0.18 UJ	0.319 J	0.399 J	0.19 UJ
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.72 U	0.7 U	0.7 U	0.73 U	0.74 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.36 U	0.36 U	0.35 U	1.03	0.38 U

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-30 0 - 2 03/28/01	RFI-36-30 8 - 10 03/28/01	RFI-36-30 10 - 12 03/28/01	RFI-36-31 0 - 2 03/28/01	RFI-36-31 8 - 10 03/28/01
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.72 UJ	0.7 UJ	0.7 UJ	0.73 UJ	0.74 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.72 U	0.7 U	0.7 U	0.73 U	0.74 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.72 U	0.7 U	0.7 U	0.73 UJ	0.74 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.72 UJ	0.7 UJ	0.7 UJ	0.73 UJ	0.74 UJ
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.72 U	0.7 U	0.7 U	0.73 UJ	0.74 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.72 U	0.7 U	0.7 U	0.73 U	0.74 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.72 U	0.7 U	0.7 U	0.73 U	0.74 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.18 U	0.18 U	0.18 U	1.21 J	0.19 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.18 U	0.18 U	0.18 U	1.07 J	0.19 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 UJ	0.19 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.18 UJ	0.18 U	6.98 JD	0.19 U
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.18 UJ	0.18 UJ	0.18 U	6.16 JD	0.19 U
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.18 UJ	0.18 UJ	0.18 U	6.21 JD	0.19 U
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.18 UJ	0.18 U	6.88 JD	0.19 U
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.18 UJ	0.18 U	4 JD	0.19 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.035 U	0.035 U	0.034 U	0.036 U	0.036 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.18 UJ	0.18 U	1.19 J	0.19 U
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.18 UJ	0.18 U	0.19 UJ	0.19 U
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	2.49	0.19 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.372 J	0.585 J	0.18 U	6.95 JD	0.19 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.18 UJ	0.18 U	1.1 J	0.19 U
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.18 U	0.18 U	0.18 U	1.11 J	0.19 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.18 UJ	0.18 U	0.19 UJ	0.19 U
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.18 U	0.18 U	0.18 U	12.5 D	0.19 U
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.18 U	0.18 U	0.18 U	0.976 J	0.19 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.18 UJ	0.18 U	6.8 JD	0.19 U
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.18 U	0.527	0.301	0.183 J	0.19 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.072 U	0.07 U	0.07 U	0.073 U	0.074 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.72 U	0.7 U	0.7 U	0.73 U	0.74 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.494	0.71	0.18 U	9.31 JD	0.19 U

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-30 0 - 2 03/28/01	RFI-36-30 8 - 10 03/28/01	RFI-36-30 10 - 12 03/28/01	RFI-36-31 0 - 2 03/28/01	RFI-36-31 8 - 10 03/28/01
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.609 J	0.18 UJ	0.18 U	17.5 JD	0.19 U
PCB												
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.037 U	0.035 U	0.037 U	0.039 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.037 U	0.035 U	0.037 U	0.039 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.037 U	0.035 U	0.037 U	0.039 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.037 U	0.035 U	0.037 U	0.039 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.037 U	0.035 U	0.037 U	0.039 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.037 U	0.035 U	0.037 U	0.039 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.037 U	0.035 U	0.037 U	0.039 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.038 U	0.037 U	0.035 U	0.037 U	0.039 U
TPH												
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C6-C10) GRO	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Inorganic												
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.43 UJ	0.29 UJ	0.38 UJ	R	0.39 UJ
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	3.8	2.5	3.6	2.2 J	3.8
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	23 J	7.3 J	6.8 J	18 J	9.5 J
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.22 J	0.074 J	0.1 J	0.16 J	0.12 J
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.35	0.061	0.12	0.14 J	0.074 J
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	**23 (SDBL (2013))**	3.1	4.2	13 J	7.8
Chromium VI (Hexavalent)	mg/kg	{NA}	9,200	240	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	4.4	1.7	2.2	3 J	2.5
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	**170 J (SDBL (2013))**	6.9 J	8 J	**35 J (SDBL (2013))**	13 J
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**24 J (SDBL (2013))**	3.4 J	3.8 J	5.8 J	5.7 J
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	290	42	52	200 J	120
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.0164 J	0.074 U	0.072 UJ	R	0.067 UJ
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	10	4.7	6.1	9.7 J	8.7
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	**1.7 U**	0.13 U	**1.5 U**	**1.3 U**	**1.5 U**
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.095 J	0.33 UJ	0.068 J	0.045 J	0.047 J
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.27 U	0.18 U	0.24 U	0.21 U	0.25 U
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	17	5.3	6.2	6.9 J	5.8
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	**140 J (SDBL (2013))**	19 J	26 J	33 J	22 J
Miscellaneous												
Percent Moisture	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	933,000	951,000	959,000	912,000	906,000

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-31 10 - 12 03/28/01	RFI-36-34 0.9 - 2.9 06/28/01	RFI-36-34 6.9 - 8.9 06/28/01	RFI-36-36R 1 - 3 11/29/01	RFI-36-37 0 - 2 09/04/01	RFI-36-37 6 - 8 09/04/01	RFI-36-37 8 - 10 09/04/01
VOC														
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.037 U	0.039 U	0.04 U	NA	0.037 U	0.036 U	0.036 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.074 U	0.078 U	0.079 U	NA	0.074 U	0.073 U	0.072 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.16 UJ	0.17 U	0.17 U	NA	0.16 U	0.16 U	0.15 U
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.037 U	0.039 U	0.04 U	NA	0.037 U	0.036 U	0.036 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.037 U	0.039 U	0.04 U	NA	0.037 U	0.036 U	0.036 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.037 U	0.039 U	0.04 U	NA	0.037 U	0.036 U	0.036 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.16 U	0.17 U	0.17 U	NA	0.16 U	0.16 U	0.15 U
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.16 U	0.17 U	0.17 U	NA	0.16 U	0.16 U	0.15 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.16 U	0.17 U	0.17 U	NA	0.16 U	0.16 U	0.15 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.074 U	0.078 U	0.079 U	NA	0.074 U	0.073 U	0.072 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.037 U	0.039 U	0.04 U	NA	0.037 U	0.036 U	0.036 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.037 U	0.039 U	0.04 U	NA	0.037 U	0.036 U	0.036 U
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.074 U	0.078 U	0.079 U	NA	0.074 U	0.073 U	0.072 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.074 U	0.078 U	0.079 U	NA	0.074 U	0.073 U	0.072 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.26 U	0.28 U	0.28 U	NA	0.26 U	0.26 U	0.028 J
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.26 UJ	0.28 U	0.28 U	NA	0.26 U	0.26 U	0.26 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.26 U	0.28 U	0.28 U	NA	0.26 U	0.26 U	0.26 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.26 U	0.2 J	0.087 J	NA	0.26 U	0.057 J	0.26 U
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.037 U	0.039 U	0.04 U	NA	0.037 U	0.036 U	0.036 U
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.074 U	0.078 U	0.079 U	NA	0.074 U	0.073 U	0.072 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.074 U	0.078 U	0.079 U	NA	0.074 U	0.073 U	0.072 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.16 UJ	0.17 UJ	0.17 U	NA	0.16 U	0.16 U	0.15 U
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.16 U	0.17 U	0.17 U	NA	0.16 U	0.16 U	0.15 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.037 U	0.039 U	0.04 U	NA	0.037 U	0.036 U	0.036 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.037 U	0.039 U	0.04 U	NA	0.037 U	0.036 U	0.036 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.16 U	0.17 U	0.17 U	NA	0.16 U	0.16 U	0.15 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.037 U	0.039 U	0.04 U	NA	0.037 U	0.036 U	0.036 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.16 U	0.17 U	0.17 U	NA	0.16 U	0.16 U	0.15 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.037 U	0.039 U	0.04 U	NA	0.037 U	0.036 U	0.036 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.037 U	0.039 U	0.04 U	NA	0.037 U	0.036 U	0.036 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.16 U	0.17 U	0.17 U	NA	0.16 U	0.16 U	0.15 U
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.074 U	0.078 U	0.079 U	NA	0.074 U	0.073 U	0.072 U
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.074 UJ	0.078 U	0.079 U	NA	0.074 U	0.073 U	0.072 U
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.069	0.039 U	0.04 U	NA	0.037 U	0.036 U	0.036 U

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-31 10 - 12 03/28/01	RFI-36-34 0.9 - 2.9 06/28/01	RFI-36-34 6.9 - 8.9 06/28/01	RFI-36-36R 1 - 3 11/29/01	RFI-36-37 0 - 2 09/04/01	RFI-36-37 6 - 8 09/04/01	RFI-36-37 8 - 10 09/04/01
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.16 U	0.17 U	0.17 U	NA	0.16 U	0.16 U	0.15 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.19	0.078 U	0.079 U	NA	0.035 J	0.073 U	0.072 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.16 UJ	0.11 J	0.17 U	NA	0.11 J	0.16 U	0.15 U
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.26 U	0.28 U	0.28 U	NA	0.26 U	0.26 U	0.26 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.16 U	0.17 U	0.17 U	NA	0.08 J	0.16 U	0.15 UJ
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.16 U	0.052 J	0.031 J	NA	0.029 J	0.081 J	0.078 J
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.077	0.039 U	0.04 U	NA	0.029 J	0.036 U	0.036 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.037 U	0.039 U	0.04 U	NA	0.037 U	0.036 U	0.036 U
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.037 U	0.039 UJ	0.04 U	NA	0.037 U	0.036 U	0.036 U
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.18	0.039 U	0.04 U	NA	0.037 U	0.036 U	0.036 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.037 U	0.039 U	0.04 U	NA	0.037 U	0.036 U	0.036 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.037 U	0.039 U	0.04 U	NA	0.037 U	0.036 U	0.036 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.037 U	0.039 U	0.04 U	NA	0.037 U	0.036 U	0.036 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.074 U	0.078 U	0.079 U	NA	0.074 U	0.073 U	0.072 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.037 U	0.039 U	0.04 U	NA	0.037 U	0.036 U	0.036 U
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.077	0.039 U	0.04 U	NA	0.029 J	0.036 U	0.036 U
SVOC														
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.72 U	0.75 U	0.75 U	NA	0.72 U	0.69 U	0.69 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.72 U	0.75 U	0.75 U	NA	0.72 U	0.69 U	0.69 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.72 U	0.75 U	0.75 U	NA	0.72 U	0.69 U	0.69 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.36 U	0.38 UJ	0.38 UJ	NA	0.36 UJ	0.35 UJ	0.35 UJ

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-31 10 - 12 03/28/01	RFI-36-34 0.9 - 2.9 06/28/01	RFI-36-34 6.9 - 8.9 06/28/01	RFI-36-36R 1 - 3 11/29/01	RFI-36-37 0 - 2 09/04/01	RFI-36-37 6 - 8 09/04/01	RFI-36-37 8 - 10 09/04/01
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.72 UJ	0.75 U	0.75 U	NA	0.72 U	0.69 U	0.69 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.72 U	0.75 U	0.75 U	NA	0.72 U	0.69 U	0.69 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.72 U	0.75 U	0.75 U	NA	0.72 U	0.69 U	0.69 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.72 UJ	0.75 U	0.75 U	NA	0.72 U	0.69 U	0.69 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.72 U	0.75 U	0.75 U	NA	0.72 UJ	0.69 UJ	0.69 UJ
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.72 U	0.75 U	0.75 U	NA	0.72 U	0.69 U	0.69 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.72 U	0.75 U	0.75 U	NA	0.72 U	0.69 U	0.69 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.19 U	NA	0.0932 J	0.18 U	0.17 U
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 U	0.19 U	NA	0.0904 J	0.18 U	0.17 U
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.18 UJ	0.19 U	0.19 U	NA	0.0932 J	0.18 U	0.17 U
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 U	0.19 U	NA	0.0548 J	0.18 U	0.17 U
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 U	0.19 U	NA	0.0879 J	0.18 U	0.17 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.035 U	0.037 U	0.037 U	NA	0.035 U	0.034 U	0.034 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 UJ	0.18 UJ	0.17 UJ
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.19 U	0.19 U	NA	0.101 J	0.18 U	0.17 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.18 U	0.19 U	0.19 U	NA	0.138 J	0.18 U	0.17 U
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.19 U	0.19 U	NA	0.0512 J	0.18 U	0.17 U
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.072 U	0.075 U	0.075 U	NA	0.072 U	0.069 U	0.069 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.72 U	0.75 U	0.75 U	NA	0.72 U	0.69 U	0.69 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.18 U	0.19 U	0.19 U	NA	0.058 J	0.18 U	0.17 U

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-31 10 - 12 03/28/01	RFI-36-34 0.9 - 2.9 06/28/01	RFI-36-34 6.9 - 8.9 06/28/01	RFI-36-36R 1 - 3 11/29/01	RFI-36-37 0 - 2 09/04/01	RFI-36-37 6 - 8 09/04/01	RFI-36-37 8 - 10 09/04/01
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.19 U	NA	0.18 U	0.18 U	0.17 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.18 U	0.19 U	0.19 U	NA	0.133 J	0.18 U	0.17 U
PCB														
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.039 U	0.039 U	NA	NA	NA	0.036 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.039 U	0.039 U	NA	NA	NA	0.036 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.039 U	0.039 U	NA	NA	NA	0.036 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.039 U	0.039 U	NA	NA	NA	0.036 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.039 U	0.039 U	NA	NA	NA	0.036 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.039 U	0.039 U	NA	NA	NA	0.036 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.036 U	0.039 U	0.039 U	NA	NA	NA	0.036 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.036 U	0.039 U	0.039 U	NA	NA	NA	0.036 U
TPH														
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C6-C10) GRO	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Inorganic														
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	R	0.23 UJ	0.22 UJ	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	2.6 J	5.2	3.4	NA	NA	NA	NA
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	3.4 J	27 J	9.3 J	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.22 U	0.28 J	0.13 J	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.043 J	0.15 J	0.097 J	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	3.1 J	13 J	5.2 J	**220 (SDBL (2013))**	NA	NA	NA
Chromium VI (Hexavalent)	mg/kg	{NA}	9,200	240	{NLV}	{NLV}	{NA}	NA	NA	NA	0.02 U	NA	NA	NA
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	1.6 J	5.4 J	2.4 J	NA	NA	NA	NA
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	8.1 J	11 J	6.2 J	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.2 U	0.015 J	0.018 J	NA	NA	NA	NA
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	2.9 J	7.1 J	3.9 J	NA	NA	NA	NA
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	51 J	230 J	440 J	NA	NA	NA	NA
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	R	0.076 U	0.076 U	NA	NA	0.072 U	NA
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	3.7 J	15 J	5.7 J	NA	NA	NA	NA
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	**1.6 U**	0.093 U	0.088 U	NA	NA	NA	NA
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.12 U	0.0038 J	0.15 J	NA	NA	NA	NA
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.26 U	0.16 J	0.046 J	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	4.6 J	18 J	11 J	NA	NA	NA	NA
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	17 J	39 J	22 J	NA	NA	NA	NA
Miscellaneous														
Percent Moisture	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	934,000	896,000	889,000	892,000	936,000	970,000	973,000

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-37 14 - 16 09/04/01	RFI-36-38 0.5 - 2.5 12/16/01	RFI-36-38 8.5 - 10.5 12/16/01	RFI-36-38 10.5 - 12.5 12/16/01	RFI-36-39 0.5 - 2.5 12/16/01	RFI-36-39 8.5 - 10.5 12/16/01	RFI-36-39 10.5 - 12.5 12/16/01
VOC														
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.038 U	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.076 U	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.16 U	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.038 U	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.038 U	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.038 U	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.16 U	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.16 U	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.16 U	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.076 U	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.038 U	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.038 U	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.076 U	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.076 U	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.27 U	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.27 U	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.27 U	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.27 U	NA	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.038 U	0.011 U	0.011 U	0.01 U [0.012 U]	0.011 U	0.011 U	0.01 U
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.076 U	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.076 U	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.16 U	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.16 U	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.038 U	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.038 U	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.16 U	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.038 U	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.16 U	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.038 U	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.038 U	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.16 U	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.076 U	NA	NA	NA	NA	NA	NA
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.076 U	NA	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.038 U	0.011 U	0.011 U	0.01 U [0.012 U]	0.011 U	0.011 U	0.01 U

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-37 14 - 16 09/04/01	RFI-36-38 0.5 - 2.5 12/16/01	RFI-36-38 8.5 - 10.5 12/16/01	RFI-36-38 10.5 - 12.5 12/16/01	RFI-36-39 0.5 - 2.5 12/16/01	RFI-36-39 8.5 - 10.5 12/16/01	RFI-36-39 10.5 - 12.5 12/16/01
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.16 U	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.076 U	0.022 U	0.022 U	0.021 U [0.043]	0.022 U	0.022 U	0.021 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.16 U	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.27 U	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.16 UJ	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.028 J	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.038 U	0.011 U	0.011 U	0.01 U [0.012 U]	0.011 U	0.011 U	0.01 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.038 U	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.038 U	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.038 U	0.011 U	0.011 U	0.01 UJ [0.083 J]	0.011 U	0.011 U	0.01 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.038 U	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.038 U	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.038 U	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.076 U	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.038 U	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.038 U	0.011 U	0.011 U	0.01 U [0.012 U]	0.011 U	0.011 U	0.01 U
SVOC														
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.74 U	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.74 U	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.74 U	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.37 UJ	NA	NA	NA	NA	NA	NA

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-37 14 - 16 09/04/01	RFI-36-38 0.5 - 2.5 12/16/01	RFI-36-38 8.5 - 10.5 12/16/01	RFI-36-38 10.5 - 12.5 12/16/01	RFI-36-39 0.5 - 2.5 12/16/01	RFI-36-39 8.5 - 10.5 12/16/01	RFI-36-39 10.5 - 12.5 12/16/01
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.74 U	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.74 U	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.74 U	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.74 U	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.74 UJ	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.74 U	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.74 U	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.036 U	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.074 U	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.74 U	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.19 U	NA	NA	NA	NA	NA	NA

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-37 14 - 16 09/04/01	RFI-36-38 0.5 - 2.5 12/16/01	RFI-36-38 8.5 - 10.5 12/16/01	RFI-36-38 10.5 - 12.5 12/16/01	RFI-36-39 0.5 - 2.5 12/16/01	RFI-36-39 8.5 - 10.5 12/16/01	RFI-36-39 10.5 - 12.5 12/16/01
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.19 U	NA	NA	NA	NA	NA	NA
PCB														
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	NA	NA	NA	NA	NA	NA	NA
TPH														
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C6-C10) GRO	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Inorganic														
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA
Chromium VI (Hexavalent)	mg/kg	{NA}	9,200	240	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous														
Percent Moisture	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	911,000	929,000	922,000	940,000 [896,000]	917,000	908,000	944,000

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-40 0.5 - 2.5 12/16/01	RFI-36-40 8.5 - 10.5 12/16/01	RFI-36-40 12.5 - 14.5 12/16/01	RFI-36-41 1 - 3 11/29/01	RFI-36-42 0.1 - 1.5 11/29/01	RFI-36-43 0.9 - 2.9 12/15/01	RFI-36-43 6.9 - 8.9 12/15/01
VOC														
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	0.038 U	0.038 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	0.076 U	0.075 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	0.16 U	0.16 U
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	0.038 U	0.038 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	0.038 U	0.038 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	0.038 U	0.038 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	0.16 U	0.16 U
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	0.16 U	0.16 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	0.16 U	0.16 U
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	0.076 U	0.075 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	0.038 UJ	0.038 UJ
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	0.038 U	0.038 U
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	0.076 U	0.075 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	0.076 U	0.075 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	0.27 U	0.27 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	0.27 U	0.27 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	0.27 UJ	0.27 UJ
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	0.27 U	0.27 U
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.056	4.7	6.3 D	NA	NA	0.058	0.038 U
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	0.076 U	0.075 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	0.076 U	0.075 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	0.16 U	0.16 U
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	0.16 U	0.16 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	0.038 U	0.038 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	0.038 U	0.038 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	0.16 U	0.16 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	0.038 U	0.038 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	0.16 U	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	0.038 U	0.038 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.038 U	0.038 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.16 U	0.041 J
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	0.076 UJ	0.075 UJ
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	0.076 U	0.075 U
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.011 U	2.6	52 D	NA	NA	0.069	0.24

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-40 0.5 - 2.5 12/16/01	RFI-36-40 8.5 - 10.5 12/16/01	RFI-36-40 12.5 - 14.5 12/16/01	RFI-36-41 1 - 3 11/29/01	RFI-36-42 0.1 - 1.5 11/29/01	RFI-36-43 0.9 - 2.9 12/15/01	RFI-36-43 6.9 - 8.9 12/15/01
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	0.16 U	0.16 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.053	5.7	140 D	NA	NA	0.076	0.84
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.16 UJ	0.16 UJ
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	0.27 U	0.27 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.058 J	0.16 U
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	0.16 U	0.16 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.011 U	2	58 D	NA	NA	0.038 U	0.43
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	0.038 U	0.038 U
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	0.038 U	0.038 U
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.12	19 D	150 D	NA	NA	0.038 U	0.32
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	0.038 U	0.038 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.038 U	0.038 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	0.038 U	0.038 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	0.076 U	0.075 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	0.038 U	0.038 U
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.011 U	2	58	NA	NA	0.038 U	0.43
SVOC														
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.18 U	0.18 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.18 U	0.18 U
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.72 U	0.7 U
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.72 U	0.7 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.18 U	0.18 U
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.18 U	0.18 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.72 U	0.7 U
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.37 UJ	0.36 UJ

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-40 0.5 - 2.5 12/16/01	RFI-36-40 8.5 - 10.5 12/16/01	RFI-36-40 12.5 - 14.5 12/16/01	RFI-36-41 1 - 3 11/29/01	RFI-36-42 0.1 - 1.5 11/29/01	RFI-36-43 0.9 - 2.9 12/15/01	RFI-36-43 6.9 - 8.9 12/15/01
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.72 U	0.7 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.72 U	0.7 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.72 U	0.7 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.18 U	0.18 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.72 U	0.7 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.72 U	0.7 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.72 U	0.7 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.72 U	0.7 U
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.18 U	0.18 UJ
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.0738 J	0.18 U
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.104 J	0.18 U
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	0.121 J	0.18 U
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.095 J	0.18 UJ
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.103 J	0.18 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.18 U	0.18 U
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA	0.036 U	0.035 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.124 J	0.18 U
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.155 J	0.18 U
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	0.0961 J	0.18 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.18 UJ	0.18 U
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.0706 J	0.18 U
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.18 UJ	0.18 U
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA	0.129 J	0.18 U
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.0713 J	0.18 U
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA	0.18 U	0.14 J
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA	0.072 U	0.07 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.72 U	0.7 U
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA	0.0544 J	0.18 U

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-40 0.5 - 2.5 12/16/01	RFI-36-40 8.5 - 10.5 12/16/01	RFI-36-40 12.5 - 14.5 12/16/01	RFI-36-41 1 - 3 11/29/01	RFI-36-42 0.1 - 1.5 11/29/01	RFI-36-43 0.9 - 2.9 12/15/01	RFI-36-43 6.9 - 8.9 12/15/01
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.18 U	0.18 U
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA	0.263	0.18 U
PCB														
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.038 U	0.037 U
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.038 U	0.037 U
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.038 U	0.037 U
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.038 U	0.037 U
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.038 U	0.037 U
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.038 U	0.037 U
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.038 U	0.037 U
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	NA	NA	NA	NA	NA	0.038 U	0.037 U
TPH														
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C6-C10) GRO	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Inorganic														
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	R	0.033 J
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	3.5 J	2.2 J
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	18	11
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.23 J	0.13 J
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	0.15 J	0.045 J
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	NA	NA	NA	**110 (SDBL (2013))**	8.7	8.4 J	5.1 J
Chromium VI (Hexavalent)	mg/kg	{NA}	9,200	240	{NLV}	{NLV}	{NA}	NA	NA	NA	0.34	0.075	NA	NA
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	3.4 J	2.1 J
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	7.5 J	4.4 J
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	0.071 J	0.2 U
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	7.5 J	2.9 J
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	190 J	42 J
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	0.076 U	0.072 U
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	7.9	4.9
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	0.079 U	0.078 U
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	0.052 J	0.024 J
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	0.081 J	0.037 J
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	11	9.3
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	27 J	20 J
Miscellaneous														
Percent Moisture	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	902,000	953,000	958,000	888,000	903,000	925,000	951,000

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-43 10.9 - 12.9 12/15/01	SB-36-12 12 - 13 09/16/13	SB-36-13 10 - 11 09/16/13	SB-36-14 1 - 2 09/16/13	SB-36-15 3 - 4 09/17/13
VOC												
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	NA	10 UY	10 UY	0.1 U	0.1 U
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.038 U	6 UY	6 UY	0.06 U	0.38
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.076 U	6 UY	6 UY	0.06 U	0.06 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.16 U	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.038 U	6 UY	6 UY	0.06 U	0.06 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.038 U	6 UY	6 UY	0.06 U	0.64
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.038 U	**6 UY**	**6 UY**	0.06 U	0.06 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	41 UY	42 UY	0.39 U	0.42 U
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	NA	**10 UY**	**10 UY**	0.1 U	0.1 U
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	60 Y	80 Y	1.4	0.1 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.16 U	41 UY	42 UY	0.39 U	0.42 U
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	**230 Y (CSAT (2013))**	**290 Y (CSAT (2013))**	1.6	0.1 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.16 U	**30 UY**	**30 UY**	0.3 U	0.3 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.16 U	**2 UMY**	**3 UMY**	0.02 UM	0.03 UM
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.076 U	10 UY	10 UY	0.1 U	0.1 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.038 UJ	6 UY	6 UY	0.06 U	0.06 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.038 U	6 UY	6 UY	0.06 U	0.06 U
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	80 Y	**100 Y (CSAT (2013))**	1	0.1 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.076 U	10 UY	10 UY	0.1 U	0.1 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.076 U	10 UY	10 UY	0.1 U	0.1 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.27 U	92 UY	95 UY	0.88 U	0.96 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.27 U	300 UY	300 UY	3 U	3 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	NA	46 Y	42 UY	0.54	1.01
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.27 UJ	300 UY	300 UY	3 U	3 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.27 U	100 UY	100 UY	2	1 U
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	NA	10 UY	10 UY	0.1 U	0.1 U
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.64	**20 Y (NSVIA (2013))**	**47 Y (NSVIA (2013),NVSICI (2013))**	0.13	0.06 U
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	NA	10 UY	10 UY	0.1 U	0.1 U
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	10 UY	10 UY	0.1 U	0.1 U
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.076 U	**10 UY**	**10 UY**	0.1 U	0.1 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.076 U	10 UY	10 UY	0.1 U	0.1 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.16 U	**20 UY**	**30 UY**	0.2 U	0.3 U
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.16 U	30 UY	30 UY	0.3 U	0.3 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.038 U	**6 UY**	**6 UY**	0.06 U	0.06 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.038 U	6 UY	6 UY	0.06 U	0.06 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.16 U	30 UY	30 UY	0.3 U	0.3 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.038 U	6 UY	6 UY	0.06 U	0.06 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.16 U	**30 UY**	**30 UY**	0.3 U	0.3 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.038 U	6 UY	6 UY	0.06 U	0.06 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.038 U	6 UY	6 UY	0.06 U	0.06 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.16 U	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.076 UJ	10 UY	10 UY	0.1 U	0.1 U
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	30 UY	30 UY	0.3 U	0.3 U
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.076 U	30 UY	30 UY	0.3 U	0.3 U
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	20 UY	30 UY	0.2 U	0.3 U
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	17 D	**158 Y (CSAT (2013))**	**222 Y (CSAT (2013))**	0.06 U	0.06 U

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
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Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	40 UY	40 UY	0.4 U	0.4 U
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	10 UY	10 UY	0.1 U	0.1 U
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	1.8	30 UY	30 UY	0.3 U	0.3 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	56 D	430 Y	590 Y	0.2	0.1 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.16 UJ	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.27 U	20 UY	30 UY	0.2 U	0.3 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.16 U	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.16 U	10 UY	10 UY	0.1 U	0.1 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	NA	41 Y	42 UY	0.67	2.3
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	NA	23 Y	27 Y	0.55	0.06 U
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	NA	60 Y	70 Y	0.1 U	0.1 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	24 D	176 Y	251 Y	0.15	0.06 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	10 UY	10 UY	0.4	0.1 U
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	NA	6 UY	7 Y	0.17	0.06 U
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.038 U	6 UY	6 UY	0.06 U	0.06 U
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	NA	6 UY	6 UY	0.06 U	0.06 U
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.038 U	6 UY	6 UY	0.06 U	0.06 U
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	NA	100 UY	100 UY	1 U	1 U
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	29 D	**510 Y (CSAT (2013))**	**780 Y (CSAT (2013),NSVIA (2013))**	0.2	0.1 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.038 U	6 UY	6 UY	0.06 U	0.06 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.038 U	6 UY	6 UY	0.06 U	0.06 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	6 UY	6 UY	0.06 U	0.06 U
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.038 U	**6 UY**	**6 UY**	0.06 U	0.08
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.076 U	10 UY	10 UY	0.1 U	0.1 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.038 U	**6 UY**	**6 UY**	0.06 U	0.06 U
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	24	**176 (CSAT (2013))**	**251 (CSAT (2013))**	0.15	0.06 U
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.0885 J	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	NA	7.1 X	10.6 X	3.6 UX	1.4 X
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.18 U	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.18 U	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.18 U	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.18 U	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.73 U	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.73 U	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.18 U	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	0.18 U	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	3.37	14.1 X	21.5 X	3.6 UX	1.7 X
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.73 U	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.37 UJ	NA	NA	NA	NA

Table G-4

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3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	0.73 U	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.73 U	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.73 U	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.73 U	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.73 U	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.73 U	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.73 U	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	0.18 U	0.7 UX	1.1 UX	3.6 UX	0.8 UX
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	0.18 U	0.7 UX	1.1 UX	3.6 UX	1 X
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.18 U	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.0408 J	0.7 UX	1.1 UX	3.6 UX	0.8 X
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	0.18 U	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.7 UX	1.1 UX	3.6 UX	3.2 X
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	0.18 U	0.7 UX	1.1 UX	3.6 UX	3.8 X
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	0.18 U	0.7 UX	1.1 UX	3.6 UX	5.7 Xp
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	0.18 U	0.7 UX	1.1 UX	3.6 UX	1.9 X
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.7 UX	1.1 UX	3.6 UX	6.3 Xp
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.18 U	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	0.036 U	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.18 U	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.18 U	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.18 U	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	0.18 U	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.8 X	1.1 UX	3.6 UX	3.5 X
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.7 UX	1.1 UX	3.6 UX	0.8 UX
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	0.18 U	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.18 U	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.0433 J	0.8 X	1.1 UX	5.7 X	4.6 X
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.105 J	0.7 UX	1.1 UX	3.6 UX	0.8 UX
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	0.18 U	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	0.18 U	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	0.18 U	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.18 U	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.7 UX	1.1 UX	3.6 UX	1.7 X
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.18 U	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.18 U	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	3.77	17.1 X	30 X	3.6 UX	3.6 X
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	0.073 U	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	0.18 U	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.18 U	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	0.73 U	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	0.156 J	1.7 X	1.4 X	4.2 X	1.5 X

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-43 10.9 - 12.9 12/15/01	SB-36-12 12 - 13 09/16/13	SB-36-13 10 - 11 09/16/13	SB-36-14 1 - 2 09/16/13	SB-36-15 3 - 4 09/17/13
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.18 U	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.0831 J	0.9 X	1.1 UX	4.8 X	6.3 X
PCB												
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	NA	NA	NA	NA
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	NA	NA	NA	NA
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	NA	NA	NA	NA
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	NA	NA	NA	NA
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	NA	NA	NA	NA
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	NA	NA	NA	NA
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	NA	NA	NA	NA
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	0.038 U	NA	NA	NA	NA
TPH												
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	NA	1,765 Y	4,084 Y	21,763 Y	1,180 Y
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	NA	6,905 Y	11,898 Y	44,670 Y	2,179 Y
Total Petroleum Hydrocarbons (C6-C10) GRO	mg/kg	- -	- -	- -	- -	- -	- -	NA	4,300 Y	5,700 Y	39	6 U
Inorganic												
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	0.11 J	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	2.7 J	NA	NA	NA	NA
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	7.4	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	0.12 J	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	0.083 J	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	5 J	NA	NA	NA	NA
Chromium VI (Hexavalent)	mg/kg	{NA}	9,200	240	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	2 J	NA	NA	NA	NA
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	5.4 J	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	0.14 J	NA	NA	NA	NA
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	3.7 J	NA	NA	NA	NA
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	46 J	NA	NA	NA	NA
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	0.076 U	NA	NA	NA	NA
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	5.4	NA	NA	NA	NA
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	0.086 U	NA	NA	NA	NA
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	0.047 J	NA	NA	NA	NA
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	0.046 J	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	8.9	NA	NA	NA	NA
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	23 J	NA	NA	NA	NA
Miscellaneous												
Percent Moisture	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	922,000	910,000	900,000	930,000	880,000

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-36-16 4 - 5 10/15/13	SB-36-17 3 - 4 10/15/13	SB-36-18 5 - 6 10/15/13	SB-36-19 3 - 4 10/17/13	SB-36-20 8 - 9 10/17/13
VOC												
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200 {(C)}	530,000	33	120	{NA}	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]	0.1 U
1,1,1-Trichloroethane	mg/kg	460	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.1	0.06 U	0.06 U	0.07 U [0.07 U]	0.07 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	{NA}	0.06 U	0.06 U	0.06 U	0.07 U [0.07 U]	0.07 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	{NA}	0.06 U	0.06 U	0.06 U	0.07 U [0.07 U]	0.07 U
1,1-Dichloroethane	mg/kg	890	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.06 U	0.29	0.06 U	0.07 U [0.07 U]	0.07 U
1,1-Dichloroethene	mg/kg	570	660 {(C)}	78,000	0.33	3.7	{NA}	0.06 U	0.06 U	0.06 U	0.07 U [0.07 U]	0.07 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	0.36 U	0.41 U	0.42 U	0.44 U [0.44 U]	0.45 U
1,2,3-Trichloropropane	mg/kg	830	4,200 {(C)}	8,800	7.5	11	{NA}	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]	0.1 U
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]	0.1 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.36 U	0.41 U	0.42 U	0.44 U [0.44 U]	0.45 U
1,2,4-Trimethylbenzene	mg/kg	110	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]	0.1 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20 {(C)}	700	1.2	0.9	{NA}	0.3 U	0.3 U	0.3 U	0.3 U [0.3 U]	0.3 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	{NA}	0.02 UM	0.02 UM	0.03 UM	0.03 UM [0.03 UM]	0.03 UM
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]	0.1 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	{NA}	0.06 U	0.06 U	0.06 U	0.07 U [0.07 U]	0.07 U
1,2-Dichloroethene (total)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	660 {(C)}	120,000	7.4	30	{NA}	0.06 U	0.06 U	0.06 U	0.07 U [0.07 U]	0.07 U
1,3,5-Trimethylbenzene	mg/kg	94	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]	0.1 U
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]	0.1 U
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]	0.1 U
2-Butanone	mg/kg	27,000	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.83 U	0.93 U	0.95 U	1 U [1 U]	1 U
2-Hexanone	mg/kg	2,500	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	3 U	3 U	3 U	3 U [3 U]	3 U
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	1.94	1.5	0.42 U	0.44 U [0.44 U]	0.45 U
4-Methyl-2-pentanone	mg/kg	2,700	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	3 U	3 U	3 U	3 U [3 U]	3 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	1 U	1 U	1 U	1 U [1 U]	1 U
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	{NA}	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]	0.1 U
Benzene	mg/kg	400	840 {(C)}	470,000	8.4	45	{NA}	0.06 U	0.06 U	0.57	0.07 U [0.07 U]	0.07 U
Bromobenzene	mg/kg	760	1,700 {(C)}	240,000	580	540	{NA}	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]	0.1 U
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]	0.1 U
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	{NA}	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]	0.1 U
Bromoform	mg/kg	870	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]	0.1 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	{NA}	0.2 U	0.2 U	0.3 U	0.3 U [0.3 U]	0.3 U
Carbon Disulfide	mg/kg	280	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.3 U	0.3 U	0.3 U	0.3 U [0.3 U]	0.3 U
Carbon Tetrachloride	mg/kg	390	440 {(C)}	170,000	0.99	12	{NA}	0.06 U	0.06 U	0.06 U	0.07 U [0.07 U]	0.07 U
Chlorobenzene	mg/kg	260	14,000 {(C)}	2,100,000	220	920	{NA}	0.06 U	0.06 U	0.06 U	0.07 U [0.07 U]	0.07 U
Chloroethane	mg/kg	950	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.3 U	0.3 U	0.3 U	0.3 U [0.3 U]	0.3 U
Chloroform	mg/kg	1,500	5,500 {(C)}	1,600,000	38	150	{NA}	0.06 U	0.06 U	0.06 U	0.07 U [0.07 U]	0.07 U
Chloromethane	mg/kg	1,100	7,400 {(C)}	2,600,000	10	120	{NA}	0.3 U	0.3 U	0.3 U	0.3 U [0.3 U]	0.3 U
cis-1,2-Dichloroethene	mg/kg	640	8,000 {(C)}	1,000,000	41	210	{NA}	0.06 U	0.06 U	0.06 U	0.07 U [0.07 U]	0.07 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.06 U	0.06 U	0.06 U	0.07 U [0.07 U]	0.07 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	500	160,000	21	80	{NA}	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]	0.1 U
Dibromomethane	mg/kg	2,000	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	0.3 U	0.3 U	0.3 U	0.3 U [0.3 U]	0.3 U
Dichlorodifluoromethane	mg/kg	1,000	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.3 U	0.3 U	0.3 U	0.3 U [0.3 U]	0.3 U
Diethyl ether	mg/kg	7,400	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	0.2 U	0.2 U	0.3 U	0.3 U [0.3 U]	0.3 U
Ethylbenzene	mg/kg	140	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.06 U	0.06 U	0.06 U	0.07 U [0.07 U]	0.07 U

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-36-16 4 - 5 10/15/13	SB-36-17 3 - 4 10/15/13	SB-36-18 5 - 6 10/15/13	SB-36-19 3 - 4 10/17/13	SB-36-20 8 - 9 10/17/13
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	0.3 U	0.4 U	0.4 U	0.4 U [0.4 U]	0.4 U
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]	0.1 U
Isopropylbenzene	mg/kg	390	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.3 U	0.3 U	0.3 U	0.3 U [0.3 U]	0.3 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]	0.1 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.2 U	0.2 U	0.3 U	0.3 U [0.3 U]	0.3 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	5,800 {(C)}	8,300,000	240	700	{NA}	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]	0.1 U
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	0.36 U	0.41 U	0.42 U	0.44 U [0.44 U]	0.45 U
n-Butylbenzene	mg/kg	10,000	8,000	880,000	{ID}	{ID}	{NA}	0.06 U	0.06 U	0.06 U	0.07 U [0.07 U]	0.07 U
n-Propylbenzene	mg/kg	10,000	8,000	590,000	{ID}	{ID}	{NA}	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]	0.1 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.06 U	0.06 U	0.06 U	0.07 U [0.07 U]	0.07 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]	0.1 U
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	{ID}	{ID}	{NA}	0.06 U	0.06 U	0.06 U	0.07 U [0.07 U]	0.07 U
Styrene	mg/kg	520	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.06 U	0.06 U	0.06 U	0.07 U [0.07 U]	0.07 U
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	{ID}	{ID}	{NA}	0.06 U	0.06 U	0.06 U	0.07 U [0.07 U]	0.07 U
Tetrachloroethene	mg/kg	88	930 {(C)}	1,200,000	21	210	{NA}	0.06 U	0.06 U	0.06 U	0.07 U [0.07 U]	0.07 U
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	{NA}	1 U	1 U	1 U	1 U [1 U]	1 U
Toluene	mg/kg	250	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]	0.1 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000 {(C)}	2,100,000	43	330	{NA}	0.06 U	0.06 U	0.06 U	0.07 U [0.07 U]	0.07 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.06 U	0.06 U	0.06 U	0.07 U [0.07 U]	0.07 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	0.06 U	0.06 U	0.06 U	0.07 U [0.07 U]	0.07 U
Trichloroethene	mg/kg	500	660 {(C,DD)}	59,000	1.9	14	{NA}	0.06 U	0.06 U	0.06 U	0.07 U [0.07 U]	0.07 U
Trichlorofluoromethane	mg/kg	560	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.1 U	0.1 U	0.1 U	0.1 U [0.1 U]	0.1 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	{NA}	0.06 U	0.06 U	0.06 U	0.07 U [0.07 U]	0.07 U
Xylenes (total)	mg/kg	150	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.06 U	0.06 U	0.06 U	0.07 U [0.07 U]	0.07 U
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/kg	- -	- -	- -	- -	- -	- -	2.5 X	0.7 UX	0.4 UX	2.9 UX [2.9 UX]	0.3 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	26,000	290,000	4,900	1,800	{NA}	2 X	0.7 UX	0.4 UX	2.9 UX [2.9 UX]	0.3 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-36-16 4 - 5 10/15/13	SB-36-17 3 - 4 10/15/13	SB-36-18 5 - 6 10/15/13	SB-36-19 3 - 4 10/17/13	SB-36-20 8 - 9 10/17/13
3,3'-Dichlorobenzidine	mg/kg	{NA}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	130,000	6,200,000	350,000	97,000	{NA}	1.8 UX	0.7 UX	0.4 UX	2.9 UX [2.9 UX]	0.3 U
Acenaphthylene	mg/kg	{NA}	5,200	1,000,000	3,000	2,700	{NA}	1.8 UX	0.7 UX	0.4 UX	2.9 UX [2.9 UX]	0.3 U
Acetophenone	mg/kg	1,100	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	1.8 UX	0.7 UX	0.4 UX	2.9 UX [2.9 UX]	0.3 U
Atrazine	mg/kg	{NA}	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	1.8 UX	0.7 UX	0.4 UX	2.9 UX [2.9 UX]	0.3 U
Benzo(a)pyrene	mg/kg	{NA}	8	1,900	{NLV}	{NLV}	{NA}	1.8 UX	0.7 UX	0.4 UX	2.9 UX [2.9 UX]	0.3 U
Benzo(b)fluoranthene	mg/kg	{NA}	80	{ID}	{ID}	{ID}	{NA}	1.8 UX	0.7 UX	0.4 UX	2.9 UX [2.9 UX]	0.3 U
Benzo(g,h,i)perylene	mg/kg	{NA}	7,000	350,000	{NLV}	{NLV}	{NA}	1.8 UX	0.7 UX	0.4 UX	2.9 UX [2.9 UX]	0.3 U
Benzo(k)fluoranthene	mg/kg	{NA}	800	{ID}	{NLV}	{NLV}	{NA}	1.8 UX	0.7 UX	0.4 UX	2.9 UX [2.9 UX]	0.3 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	8,000	{ID}	{ID}	{ID}	{NA}	1.8 UX	1.2 X	0.4 UX	2.9 UX [3 X]	0.3 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	8	{ID}	{NLV}	{NLV}	{NA}	1.8 UX	0.7 UX	0.4 UX	2.9 UX [2.9 UX]	0.3 U
Dibenzofuran	mg/kg	{NA}	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	1.8 UX	0.7 X	0.4 UX	2.9 UX [2.9 UX]	0.3 U
Fluorene	mg/kg	{NA}	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	1.8 UX	0.7 UX	0.4 UX	2.9 UX [2.9 UX]	0.3 U
Hexachlorobenzene	mg/kg	{NA}	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	80	{ID}	{NLV}	{NLV}	{NA}	1.8 UX	0.7 UX	0.4 UX	2.9 UX [2.9 UX]	0.3 U
Isophorone	mg/kg	2,400	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Naphthalene	mg/kg	{NA}	52,000	88,000	470	350	{NA}	1.8 UX	0.7 UX	0.4 UX	2.9 UX [2.9 UX]	0.3 U
Nitrobenzene	mg/kg	490	340	21,000	170	64	{NA}	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	5,200	2,900	5,100	190	{NA}	3.1 X	0.9 X	0.4 UX	6.9 X [7.3 X]	0.3 U

Table G-4

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of Soil Sample Analytical Results from Southeast Portion of Area
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-36-16 4 - 5 10/15/13	SB-36-17 3 - 4 10/15/13	SB-36-18 5 - 6 10/15/13	SB-36-19 3 - 4 10/17/13	SB-36-20 8 - 9 10/17/13
Phenol	mg/kg	12,000	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	1.8 UX	4.4 X	0.4 UX	2.9 UX [2.9 UX]	0.3 U
PCB												
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Total PCBs	mg/kg	{NA}	16 {(T)}	6,500	16,000	810	{NA}	NA	NA	NA	NA	NA
TPH												
ARC-TPH-C28C36	mg/kg	- -	- -	- -	- -	- -	- -	9,032 EY	618 Y	188 Y	2,750 Y [2,739 Y]	60 Y
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	NA	1,003 Y	1,068 Y	NA	230 Y
Total Petroleum Hydrocarbons (C6-C10) GRO	mg/kg	- -	- -	- -	- -	- -	- -	6 U	6 U	6 U	7 U [7 U]	7 U
Inorganic												
Antimony	mg/kg	{NA}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	NA	NA	NA	NA	NA
Chromium VI (Hexavalent)	mg/kg	{NA}	9,200	240	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA
Miscellaneous												
Percent Moisture	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	950,000	890,000	870,000	850,000 [860,000]	850,000

Table G-5

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	36-FP6 09/17/02	36-FP6 12/20/02	RFI-36-06 03/27/13	RFI-36-07 09/17/02	RFI-36-07 01/16/03	RFI-36-07 03/17/03	RFI-36-15 12/21/00	RFI-36-16 12/21/00	RFI-36-16 09/17/02	RFI-36-23 03/27/13	RFI-36-29R_LNAPL 09/24/13
VOC												
1,1,1,2-Tetrachloroethane	mg/kg	NA	NA	5 UX	NA	NA	NA	NA	NA	NA	5 UX	500 UY
1,1,1-Trichloroethane	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 U	0.63 U	0.63 U	NA	5 UX	500 UY
1,1,2,2-Tetrachloroethane	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 UJ	0.63 U	0.63 U	NA	5 UX	500 UY
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	NA	0.63 U	NA	NA	250 U	1,300 U	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	NA	0.13 U	5 UX	NA	250 UJ	250 U	0.63 U	0.63 U	NA	5 UX	500 UY
1,1-Dichloroethane	mg/kg	NA	0.12 J	5 UX	NA	50 U	250 U	1.03 D	1.04	NA	5 UX	500 UY
1,1-Dichloroethene	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 U	0.63 U	0.63 U	NA	5 UX	500 UY
1,2,3-Trichlorobenzene	mg/kg	NA	NA	5 UX	NA	NA	NA	NA	NA	NA	5 UX	500 UY
1,2,3-Trichloropropane	mg/kg	NA	NA	5 UX	NA	NA	NA	NA	NA	NA	5 UX	500 UY
1,2,3-Trimethylbenzene	mg/kg	NA	NA	5 X	NA	NA	NA	NA	NA	NA	7 X	800 Y
1,2,4-Trichlorobenzene	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 U	NA	NA	NA	5 UX	500 UY
1,2,4-Trimethylbenzene	mg/kg	NA	NA	9 X	NA	NA	NA	NA	NA	NA	12 X	3,300 Y
1,2-Dibromo-3-chloropropane	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 U	NA	NA	NA	5 UX	500 UY
1,2-Dibromoethane	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 U	NA	NA	NA	5 UX	500 UY
1,2-Dichlorobenzene	mg/kg	NA	0.13 U	10 X	NA	50 U	250 U	NA	NA	NA	5 UX	500 UY
1,2-Dichloroethane	mg/kg	NA	0.13 U	5 UX	NA	50 UJ	250 U	0.63 U	0.63 U	NA	5 UX	500 UY
1,2-Dichloroethene (total)	mg/kg	NA	NA	NA	NA	NA	NA	1 U	1 U	NA	NA	NA
1,2-Dichloropropane	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 U	0.63 U	0.63 U	NA	5 UX	500 UY
1,3,5-Trimethylbenzene	mg/kg	NA	NA	5 UX	NA	NA	NA	NA	NA	NA	5 UX	1,100 Y
1,3-Dichlorobenzene	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 U	NA	NA	NA	5 UX	500 UY
1,4-Dichlorobenzene	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 U	NA	NA	NA	5 UX	500 UY
2-Butanone	mg/kg	NA	0.63 U	50 UX	NA	250 UJ	1,300 UJ	3.1 U	3.1 UJ	NA	50 UX	5,000 UY
2-Hexanone	mg/kg	NA	0.63 U	50 UX	NA	250 U	1,300 UJ	0.75 UJ	0.75 UJ	NA	50 UX	5,000 UY
2-Methylnaphthalene	mg/kg	NA	NA	20 X	NA	NA	NA	NA	NA	NA	40 X	1,000 UY
4-Methyl-2-pentanone	mg/kg	NA	0.63 U	50 UX	NA	250 U	1,300 UJ	0.75 U	0.75 UJ	NA	50 UX	5,000 UY
Acetone	mg/kg	NA	0.89	50 UX	NA	250 UJ	1,300 UJ	1.3 U	1.3 UJ	NA	50 UX	5,000 UY
Acrylonitrile	mg/kg	NA	NA	5 UX	NA	NA	NA	NA	NA	NA	5 UX	500 UY
Benzene	mg/kg	NA	0.13 U	5 UX	NA	2,900	2,900	0.63 U	0.63 U	NA	5 UX	1,300 Y
Bromobenzene	mg/kg	NA	NA	5 UX	NA	NA	NA	NA	NA	NA	5 UX	500 UY
Bromochloromethane	mg/kg	NA	NA	5 UX	NA	NA	NA	NA	NA	NA	5 UX	500 UY
Bromodichloromethane	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 U	0.63 UJ	0.63 U	NA	5 UX	500 UY
Bromoform	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 U	0.63 UJ	0.63 UJ	NA	5 UX	500 UY
Bromomethane	mg/kg	NA	0.13 U	5 UX	NA	50 UJ	250 U	0.63 U	0.63 UJ	NA	5 UX	500 UY
Carbon Disulfide	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 UJ	0.63 U	0.63 U	NA	5 UX	500 UY
Carbon Tetrachloride	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 U	0.63 U	0.63 U	NA	5 UX	500 UY
Chlorobenzene	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 U	0.63 U	0.63 U	NA	5 UX	500 UY
Chloroethane	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 U	0.63 UJ	0.63 UJ	NA	5 UX	500 UY
Chloroform	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 U	0.63 U	0.63 U	NA	5 UX	500 UY

Table G-5

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	36-FP6 09/17/02	36-FP6 12/20/02	RFI-36-06 03/27/13	RFI-36-07 09/17/02	RFI-36-07 01/16/03	RFI-36-07 03/17/03	RFI-36-15 12/21/00	RFI-36-16 12/21/00	RFI-36-16 09/17/02	RFI-36-23 03/27/13	RFI-36-29R_LNAPL 09/24/13
Chloromethane	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 U	0.63 U	0.63 U	NA	5 UX	500 UY
cis-1,2-Dichloroethene	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 U	0.63 U	1.35	NA	5 UX	500 UY
cis-1,3-Dichloropropene	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 U	0.63 UJ	0.63 UJ	NA	5 UX	500 UY
Cyclohexane	mg/kg	NA	0.63 U	NA	NA	250 U	1,300 UJ	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 U	0.63 U	0.63 U	NA	5 UX	500 UY
Dibromomethane	mg/kg	NA	NA	5 UX	NA	NA	NA	NA	NA	NA	5 UX	500 UY
Dichlorodifluoromethane	mg/kg	NA	2.7	5 UX	NA	50 U	250 U	NA	NA	NA	5 UX	500 UY
Diethyl ether	mg/kg	NA	NA	5 UX	NA	NA	NA	NA	NA	NA	5 UX	500 UY
Ethylbenzene	mg/kg	NA	0.15	5 UX	NA	8,600 D	6,800	0.63 U	0.63 U	NA	5 UX	3,100 Y
Hexachloroethane	mg/kg	NA	NA	5 UX	NA	NA	NA	NA	NA	NA	5 UX	500 UY
Iodomethane	mg/kg	NA	NA	5 UX	NA	NA	NA	NA	NA	NA	5 UX	500 UY
Isopropylbenzene	mg/kg	NA	0.13 U	5 UX	NA	610	540	NA	NA	NA	5 UX	500 UY
m&p-Xylene	mg/kg	NA	0.36	10 UX	NA	23,000 D	18,000	1.3 U	1.3 U	NA	10 UX	9,000 Y
Methyl acetate	mg/kg	NA	1.7	NA	NA	250 U	1,300 UJ	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 UJ	NA	NA	NA	5 UX	500 UY
Methylcyclohexane	mg/kg	NA	0.24 J	NA	NA	390	390 J	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	NA	0.63 U	10 UX	NA	250 U	180 J	3.1 U	3.1 U	NA	10 UX	1,000 UY
Naphthalene	mg/kg	NA	NA	10 UX	NA	NA	NA	NA	NA	NA	10 UX	1,000 UY
n-Butylbenzene	mg/kg	NA	NA	6 UX	NA	NA	NA	NA	NA	NA	9 UX	500 UY
n-Propylbenzene	mg/kg	NA	NA	5 UX	NA	NA	NA	NA	NA	NA	5 UX	800 Y
o-Xylene	mg/kg	NA	0.51 J	5 UX	NA	8,800 D	6,500	1.31	1.75	NA	5 UX	3,200 Y
p-Isopropyltoluene	mg/kg	NA	NA	5 UX	NA	NA	NA	NA	NA	NA	5 UX	500 UY
sec-Butylbenzene	mg/kg	NA	NA	5 UX	NA	NA	NA	NA	NA	NA	5 UX	500 UY
Styrene	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 U	0.63 U	0.63 U	NA	5 UX	500 UY
tert-Butylbenzene	mg/kg	NA	NA	5 UX	NA	NA	NA	NA	NA	NA	5 UX	500 UY
Tetrachloroethene	mg/kg	NA	0.13 U	5 UX	NA	50 UJ	250 U	0.63 U	0.63 U	NA	5 UX	500 UY
Tetrahydrofuran	mg/kg	NA	NA	50 UX	NA	NA	NA	NA	NA	NA	50 UX	5,000 UY
Toluene	mg/kg	NA	0.15	5 UX	NA	52,000 D	42,000 D	0.63 U	1.69	NA	5 UX	16,600 Y
trans-1,2-Dichloroethene	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 U	0.63 U	0.63 U	NA	5 UX	500 UY
trans-1,3-Dichloropropene	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 U	0.63 U	0.63 UJ	NA	5 UX	500 UY
trans-1,4-Dichloro-2-butene	mg/kg	NA	NA	5 UX	NA	NA	NA	NA	NA	NA	5 UX	500 UY
Trichloroethene	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 U	4.19	0.63 U	NA	5 UX	500 UY
Trichlorofluoromethane	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 U	NA	NA	NA	5 UX	500 UY
Vinyl Chloride	mg/kg	NA	0.13 U	5 UX	NA	50 U	250 U	0.63 U	0.63 U	NA	5 UX	500 UY
Xylenes (total)	mg/kg	NA	0.51 J	5 U	NA	8,800	6,500	1.31	1.75	NA	5 U	3,200
SVOC												
1,1'-Biphenyl	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	490 U	480 U	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	490 U	480 U	NA	NA	NA

Table G-5

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	36-FP6 09/17/02	36-FP6 12/20/02	RFI-36-06 03/27/13	RFI-36-07 09/17/02	RFI-36-07 01/16/03	RFI-36-07 03/17/03	RFI-36-15 12/21/00	RFI-36-16 12/21/00	RFI-36-16 09/17/02	RFI-36-23 03/27/13	RFI-36-29R_LNAPL 09/24/13
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	490 U	480 U	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	490 U	480 U	NA	NA	NA
1-Methylnaphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	131 UXT
2,2'-Oxybis(1-Chloropropane)	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
2,4-Dichlorophenol	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
2,4-Dimethylphenol	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
2,4-Dinitrophenol	mg/kg	NA	2,000 U	NA	NA	2,000 U	9,700 U	2,000 U	1,900 U	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
2-Chloronaphthalene	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
2-Chlorophenol	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
2-Methylnaphthalene	mg/kg	NA	500 U	NA	NA	570	880 J	490 U	480 U	NA	NA	223 XT
2-Methylphenol	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
2-Nitroaniline	mg/kg	NA	2,000 U	NA	NA	2,000 U	9,700 U	2,000 U	1,900 U	NA	NA	NA
2-Nitrophenol	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
3&4-Methylphenol	mg/kg	NA	1,000 UJ	NA	NA	990 UJ	4,800 UJ	990 U	960 U	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	NA	2,000 U	NA	NA	2,000 U	9,700 U	2,000 U	1,900 UJ	NA	NA	NA
3-Nitroaniline	mg/kg	NA	2,000 U	NA	NA	2,000 U	9,700 U	2,000 U	1,900 U	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	2,000 UJ	NA	NA	2,000 U	9,700 U	2,000 U	1,900 U	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
4-Chloroaniline	mg/kg	NA	2,000 U	NA	NA	2,000 U	9,700 U	2,000 U	1,900 UJ	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
4-Nitroaniline	mg/kg	NA	2,000 UJ	NA	NA	2,000 U	9,700 U	2,000 U	1,900 U	NA	NA	NA
4-Nitrophenol	mg/kg	NA	2,000 U	NA	NA	2,000 U	9,700 U	2,000 U	1,900 UJ	NA	NA	NA
Acenaphthene	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	131 UXT
Acenaphthylene	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	131 UXT
Acetophenone	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	NA	NA	NA	NA	NA
Anthracene	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	131 UXT
Atrazine	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	NA	500 U	NA	NA	490 UJ	2,400 UJ	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	131 UXT
Benzo(a)pyrene	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	131 UXT
Benzo(b)fluoranthene	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	131 UXT
Benzo(g,h,i)perylene	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 UJ	NA	NA	131 UXT
Benzo(k)fluoranthene	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	131 UXT
bis(2-Chloroethoxy)methane	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 UJ	480 UJ	NA	NA	NA

Table G-5

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	36-FP6 09/17/02	36-FP6 12/20/02	RFI-36-06 03/27/13	RFI-36-07 09/17/02	RFI-36-07 01/16/03	RFI-36-07 03/17/03	RFI-36-15 12/21/00	RFI-36-16 12/21/00	RFI-36-16 09/17/02	RFI-36-23 03/27/13	RFI-36-29R_LNAPL 09/24/13
bis(2-Chloroethyl)ether	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
Butylbenzylphthalate	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
Caprolactam	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	NA	NA	NA	NA	NA
Carbazole	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
Chrysene	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	131 UXT
Dibenzo(a,h)anthracene	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	131 UXT
Dibenzofuran	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
Diethylphthalate	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
Dimethylphthalate	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
Di-n-Butylphthalate	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
Di-n-Octylphthalate	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
Fluoranthene	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	131 UXT
Fluorene	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	131 UXT
Hexachlorobenzene	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
Hexachlorobutadiene	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 UJ	480 U	NA	NA	NA
Hexachloroethane	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	131 UXT
Isophorone	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
Methylphenols, Total	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
Naphthalene	mg/kg	NA	500 U	NA	NA	780	1,400 J	490 U	480 U	NA	NA	318 XT
Nitrobenzene	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 UJ	480 U	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
Pentachlorophenol	mg/kg	NA	2,000 U	NA	NA	2,000 U	9,700 U	2,000 U	1,900 U	NA	NA	NA
Phenanthrene	mg/kg	NA	100 JDM	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	194 XT
Phenol	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	NA
Pyrene	mg/kg	NA	500 U	NA	NA	490 U	2,400 U	490 U	480 U	NA	NA	131 UXT
PCB												
Aroclor-1016	mg/kg	NA	1 U	1 U	NA	0.98 U	0.99 U	NA	NA	NA	1 U	NA
Aroclor-1221	mg/kg	NA	1 U	1 U	NA	0.98 U	0.99 U	NA	NA	NA	1 U	NA
Aroclor-1232	mg/kg	NA	1 U	1 U	NA	0.98 U	0.99 U	NA	NA	NA	1 U	NA
Aroclor-1242	mg/kg	NA	1 U	1 U	NA	0.98 U	0.99 U	NA	NA	NA	1 U	NA
Aroclor-1248	mg/kg	NA	1 U	1 U	NA	0.98 U	0.99 U	NA	NA	NA	1 U	NA
Aroclor-1254	mg/kg	NA	1 U	1 U	NA	0.98 U	0.99 U	NA	NA	NA	1 U	NA
Aroclor-1260	mg/kg	NA	1 U	1 U	NA	0.98 U	0.99 U	NA	NA	NA	1 U	NA
Total PCBs	mg/kg	NA	1 U	1 U	NA	0.98 U	0.99 U	NA	NA	NA	1 U	NA
Inorganic												

Table G-5

Priority #8, 14 & 15 - AOI 36-1/36-2 LNAPL Areas
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	36-FP6 09/17/02	36-FP6 12/20/02	RFI-36-06 03/27/13	RFI-36-07 09/17/02	RFI-36-07 01/16/03	RFI-36-07 03/17/03	RFI-36-15 12/21/00	RFI-36-16 12/21/00	RFI-36-16 09/17/02	RFI-36-23 03/27/13	RFI-36-29R_LNAPL 09/24/13
Antimony	mg/kg	NA	0.39 U	0.5 U	NA	0.37 UJ	0.38 U	NA	NA	NA	0.5 U	NA
Arsenic	mg/kg	NA	2.6 J	3.27	NA	0.92 U	1.5	NA	NA	NA	3.25	NA
Barium	mg/kg	NA	0.35 J	1.18	NA	0.72 J	1.3	NA	NA	NA	1.08	NA
Beryllium	mg/kg	NA	0.19 U	0.2 U	NA	0.18 U	0.19 U	NA	NA	NA	0.2 U	NA
Cadmium	mg/kg	NA	0.016 J	0.2 U	NA	0.053 J	0.19	NA	NA	NA	0.2	NA
Chromium Total	mg/kg	NA	3.2 J	2.1	NA	3.7 J	3.9	NA	NA	NA	1.5	NA
Cobalt	mg/kg	NA	0.39 U	0.5 U	NA	0.37 U	0.057 J	NA	NA	NA	0.5 U	NA
Copper	mg/kg	NA	8.7 J	4.6	NA	0.8 J	1.6	NA	NA	NA	1.33	NA
Cyanide (total)	mg/kg	NA	0.2 U	2 U	NA	0.2 U	0.2 U	NA	NA	NA	2 U	NA
Lead	mg/kg	NA	1.2 J	0.82	NA	0.94 U	3.4	NA	NA	NA	0.64	NA
Manganese	mg/kg	NA	0.19 J	3.74	NA	0.12 J	1.1	NA	NA	NA	4.95	NA
Mercury	mg/kg	NA	0.02 UJ	0.05 U	NA	0.019 UJ	0.02 U	NA	NA	NA	0.05 U	NA
Nickel	mg/kg	NA	1.9	0.5 U	NA	0.21 J	0.48	NA	NA	NA	0.5 U	NA
Selenium	mg/kg	NA	0.11 J	0.4 U	NA	0.65 U	0.19 U	NA	NA	NA	0.4 U	NA
Silver	mg/kg	NA	0.39 U	0.1 U	NA	0.37 U	0.38 U	NA	NA	NA	0.1 U	NA
Thallium	mg/kg	NA	0.39 U	0.2 U	NA	0.37 U	0.38 U	NA	NA	NA	0.2 U	NA
Vanadium	mg/kg	NA	8.9 J	0.68	NA	0.86 J	0.89	NA	NA	NA	0.5 U	NA
Zinc	mg/kg	NA	1.6	2.87	NA	1.2 J	2.1	NA	NA	NA	8.76	NA
Miscellaneous												
Ignitability	deg f	200 U	NA	NA	50	NA	NA	NA	NA	200 U	NA	NA
Interfacial Tension	dynes/cm	NA	24	NA	NA	NA	0.54	NA	NA	NA	NA	NA
Specific gravity	sg	NA	0.90	NA	NA	NA	0.83	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA	760,000	750,000	NA	NA	NA
Viscosity	cp	NA	24.3	NA	NA	NA	2.19	NA	NA	NA	NA	NA

Table H-1

Priority #9 - AOI 83/84-1 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-83/84-01 09/21/01	RFI-83/84-01 04/04/05	RFI-83/84-20 02/22/02	RFI-83/84-20 06/20/02	RFI-83/84-20 04/02/03
VOC										
1,1,1-Trichloroethane	ug/L	{ID}	89	1,300,000 {(S)}	1,330,000	1 U	NA	1 U	NA	NA
1,1,2,2-Tetrachloroethane	ug/L	{ID}	78 {(X)}	77,000	2,970,000	1 U	NA	1 U	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	32	170,000 {(S)}	170,000	1 U	NA	1 U	NA	NA
1,1,2-Trichloroethane	ug/L	{NA}	330 {(X)}	110,000	4,420,000	1 U	NA	1 U	NA	NA
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	1 U	NA	1 U	NA	NA
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	1 U	NA	1 U	NA	NA
1,2,4-Trichlorobenzene	ug/L	{NA}	99 {(X)}	300,000 {(S)}	300,000	5 U	NA	5 U	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	{NA}	{ID}	1,200 {(S)}	1,230	1 U	NA	1 U	NA	NA
1,2-Dibromoethane	ug/L	{ID}	5.7 {(X)}	15,000	4,200,000	1 U	NA	1 U	NA	NA
1,2-Dichlorobenzene	ug/L	{NA}	13	160,000 {(S)}	156,000	1 U	NA	1 U	NA	NA
1,2-Dichloroethane	ug/L	2,500,000	360 {(X)}	59,000	8,520,000	1 U	NA	1 U	NA	NA
1,2-Dichloropropane	ug/L	550,000	230 {(X)}	36,000	2,800,000	1 U	NA	1 U	NA	NA
1,3-Dichlorobenzene	ug/L	{ID}	28	41,000	111,000	1 U	NA	1 U	NA	NA
1,4-Dichlorobenzene	ug/L	{NA}	17	74,000 {(S)}	73,800	1 U	NA	1 U	NA	NA
2-Butanone	ug/L	{ID}	2,200	240,000,000 {(S)}	240,000,000	25 U	NA	25 U	NA	NA
2-Hexanone	ug/L	{NA}	{ID}	8,700,000	16,000,000	50 U	NA	50 U	NA	NA
4-Methyl-2-pentanone	ug/L	{ID}	{ID}	20,000,000 {(S)}	20,000,000	50 U	NA	50 U	NA	NA
Acetone	ug/L	15,000,000	1,700	1,000,000,000 {(D,S)}	1,000,000,000	25 U	NA	25 U	NA	NA
Benzene	ug/L	68,000	200 {(X)}	35,000	1,750,000	1.1	NA	1 U	NA	NA
Bromodichloromethane	ug/L	{ID}	{ID}	37,000	6,740,000	1 U	NA	1 U	NA	NA
Bromoform	ug/L	{ID}	{ID}	3,100,000 {(S)}	3,100,000	1 U	NA	1 U	NA	NA
Bromomethane	ug/L	{ID}	35	9,000	14,500,000	1 UJ	NA	1 U	NA	NA
Carbon Disulfide	ug/L	13,000	{ID}	550,000	1,190,000	5 U	NA	5 U	NA	NA
Carbon Tetrachloride	ug/L	{ID}	45 {(X)}	2,400	793,000	1 U	NA	1 U	NA	NA
Chlorobenzene	ug/L	160,000	25	470,000 {(S)}	472,000	1 U	NA	1 U	NA	NA
Chloroethane	ug/L	110,000	1,100 {(X)}	5,700,000 {(S)}	5,740,000	1 U	NA	1 U	NA	NA
Chloroform	ug/L	{ID}	350	180,000	7,920,000	1 U	NA	1 U	NA	NA
Chloromethane	ug/L	36,000	{ID}	45,000	6,340,000	1 U	NA	1 U	NA	NA
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	0.59 J	NA	0.83 J	NA	NA
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	NA	1 U	NA	NA
Cyclohexane	ug/L	- -	- -	- -	- -	5 U	NA	5 U	NA	NA
Dibromochloromethane	ug/L	{ID}	{ID}	110,000	2,600,000	1 U	NA	1 U	NA	NA
Dichlorodifluoromethane	ug/L	{ID}	{ID}	300,000 {(S)}	300,000	1 U	NA	1 U	NA	NA
Ethylbenzene	ug/L	43,000	18	170,000 {(S)}	169,000	1 U	NA	1 U	NA	NA
Isopropylbenzene	ug/L	29,000	28	56,000 {(S)}	56,000	5 U	NA	5 U	NA	NA
m&p-Xylene	ug/L	- -	- -	- -	- -	2 U	NA	2 U	NA	NA
Methyl acetate	ug/L	- -	- -	- -	- -	5 U	NA	5 U	NA	NA
Methyl tert-butyl ether	ug/L	{ID}	7,100 {(X)}	47,000,000 {(S)}	46,800,000	5 U	NA	5 U	NA	NA

Table H-1

Priority #9 - AOI 83/84-1 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-83/84-01 09/21/01	RFI-83/84-01 04/04/05	RFI-83/84-20 02/22/02	RFI-83/84-20 06/20/02	RFI-83/84-20 04/02/03
Methylcyclohexane	ug/L	- -	- -	- -	- -	1 U	NA	1 U	NA	NA
Methylene Chloride	ug/L	{ID}	1,500 {(X)}	1,400,000	17,000,000	5 U	NA	5 U	NA	NA
o-Xylene	ug/L	- -	- -	- -	- -	1 U	NA	1 U	NA	NA
Styrene	ug/L	140,000	80 {(X)}	310,000 {(S)}	310,000	1 U	NA	1 U	NA	NA
Tetrachloroethene	ug/L	{ID}	60 {(X)}	170,000	200,000	1 U	NA	1 U	NA	NA
Toluene	ug/L	61,000	270	530,000 {(S)}	526,000	1 U	NA	1 U	NA	NA
trans-1,2-Dichloroethene	ug/L	230,000	1,500 {(X)}	200,000	6,300,000	1 U	NA	1 U	NA	NA
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	NA	1 U	NA	NA
Trichloroethene	ug/L	{ID}	200 {(X)}	4,900	1,100,000	1.6	NA	1.5	NA	NA
Trichlorofluoromethane	ug/L	{ID}	{NA}	1,100,000 {(S)}	1,100,000	1 U	NA	1 U	NA	NA
Vinyl Chloride	ug/L	33,000	13 {(X)}	13,000	2,760,000	1 U	NA	1 U	NA	NA
Xylenes (total)	ug/L	70,000	41	190,000 {(S)}	186,000	1 U	NA	1 U	NA	NA
SVOC										
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	5 U	5 U [5 U]	5 U	NA	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	5 U	5 U [5 U]	5 U	NA	NA
2,4,5-Trichlorophenol	ug/L	{ID}	{NA}	{NLV}	1,200,000	5 U	5 U [5 U]	5 U	NA	NA
2,4,6-Trichlorophenol	ug/L	{ID}	5	{NLV}	800,000	4 U	5 U [5 U]	4 U	NA	NA
2,4-Dichlorophenol	ug/L	{ID}	11	{NLV}	4,500,000	10 U	10 U [10 U]	10 U	NA	NA
2,4-Dimethylphenol	ug/L	{ID}	380	{NLV}	7,870,000	5 U	5 U [5 U]	5 U	NA	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	20 U	20 UJ [20 UJ]	20 U	NA	NA
2,4-Dinitrotoluene	ug/L	{ID}	{NA}	{NLV}	270,000	5 U	5 U [5 U]	5 U	NA	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	5 U	5 U [5 U]	5 U	NA	NA
2-Chloronaphthalene	ug/L	{ID}	{NA}	{ID}	6,740	5 U	5 U [5 U]	5 U	NA	NA
2-Chlorophenol	ug/L	{ID}	18	1,100,000	22,000,000	5 U	5 U [5 U]	5 U	NA	NA
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	5 U	5 U [5 U]	5 U	NA	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	5 U	5 U [5 U]	5 U	NA	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	20 U	20 U [20 U]	20 U	NA	NA
2-Nitrophenol	ug/L	{ID}	{ID}	{NLV}	2,500,000	5 U	5 U [5 U]	5 U	NA	NA
3&4-Methylphenol	ug/L	- -	- -	- -	- -	10 UJ	NA	10 UJ	NA	NA
3,3'-Dichlorobenzidine	ug/L	{ID}	0.3 {(M); 0.2}	{NLV}	3,110	**20 U**	**20 U [20 U]**	R	NA	NA
3-Methylphenol	ug/L	- -	- -	- -	- -	NA	5 U [5 U]	NA	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	20 U	20 U [20 U]	20 U	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	20 U	20 UJ [20 UJ]	20 U	NA	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	5 U	5 U [5 U]	5 U	NA	NA
4-Chloro-3-Methylphenol	ug/L	{ID}	7.4	{NLV}	3,900,000	5 U	5 U [5 U]	5 U	NA	NA
4-Chloroaniline	ug/L	- -	- -	- -	- -	20 U	20 U [20 U]	20 U	NA	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	R	5 U [5 U]	5 U	NA	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	20 U	20 U [20 U]	20 U	NA	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	20 U	20 U [20 U]	20 U	NA	NA

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Priority #9 - AOI 83/84-1 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-83/84-01 09/21/01	RFI-83/84-01 04/04/05	RFI-83/84-20 02/22/02	RFI-83/84-20 06/20/02	RFI-83/84-20 04/02/03
Acenaphthene	ug/L	{ID}	38	4,200 {(S)}	4,240	5 U	5 U [5 U]	5 U	NA	NA
Acenaphthylene	ug/L	{ID}	{ID}	3,900 {(S)}	3,930	5 U	5 U [5 U]	5 U	NA	NA
Acetophenone	ug/L	{ID}	{ID}	6,100,000 {(S)}	6,100,000	5 U	5 U [5 U]	5 U	NA	NA
Anthracene	ug/L	{ID}	{ID}	43 {(S)}	43.4	5 U	5 U [5 U]	5 U	NA	NA
Atrazine	ug/L	{ID}	7.3	{NLV}	70,000	5 U	5 U [5 U]	5 U	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	5 U	5 U [5 U]	5 UJ	NA	NA
Benzo(a)anthracene	ug/L	{ID}	{ID}	{NLV}	9.4	1 U	5 U [5 U]	1 U	NA	NA
Benzo(a)pyrene	ug/L	{ID}	{ID}	{NLV}	1.62	**2 U**	**5 U [5 U]**	**2 UJ**	NA	NA
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	{ID}	1.5	**2 U**	**5 U [5 U]**	**2 UJ**	NA	NA
Benzo(g,h,i)perylene	ug/L	{ID}	{ID}	{NLV}	0.26	**5 U**	**5 U [5 U]**	**5 UJ**	NA	NA
Benzo(k)fluoranthene	ug/L	{ID}	{NA}	{NLV}	0.8	**5 U**	**5 U [5 U]**	**5 UJ**	NA	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	5 U	5 U [5 U]	5 U	NA	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	1 {(M); 0.79}	210,000	17,200,000	1 U	**5 U [5 U]**	1 U	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	25	{NLV}	340	5 U	5 U [5 U]	5 U	NA	NA
Butylbenzylphthalate	ug/L	{ID}	67 {(X)}	{NLV}	2,690	5 U	5 U [5 U]	5 U	NA	NA
Caprolactam	ug/L	{NA}	{NA}	{NLV}	5,250,000,000	10 U	10 U [10 U]	10 U	NA	NA
Carbazole	ug/L	{ID}	10 {(M); 4.0}	{NLV}	7,480	10 U	10 U [10 U]	10 U	NA	NA
Chrysene	ug/L	{ID}	{ID}	{ID}	1.6	**5 U**	**5 U [5 U]**	**5 U**	NA	NA
Dibenzo(a,h)anthracene	ug/L	{ID}	{ID}	{NLV}	2.49	2 U	**5 U [5 U]**	2 UJ	NA	NA
Dibenzofuran	ug/L	{ID}	4	10,000 {(S)}	10,000	4 U	**5 U [5 U]**	4 U	NA	NA
Diethylphthalate	ug/L	{NA}	110	{NLV}	1,080,000	5 U	5 U [5 U]	5 U	NA	NA
Dimethylphthalate	ug/L	{NA}	{NA}	{NLV}	4,190,000	5 U	5 U [5 U]	5 U	NA	NA
Di-n-Butylphthalate	ug/L	{NA}	9.7	{NLV}	11,200	5 U	5 U [5 U]	5 U	NA	NA
Di-n-Octylphthalate	ug/L	{ID}	{ID}	{NLV}	3,000	5 U	5 U [5 U]	5 UJ	NA	NA
Fluoranthene	ug/L	{ID}	1.6	210 {(S)}	206	**2 U**	**5 U [5 U]**	**2 U**	NA	NA
Fluorene	ug/L	{ID}	12	2,000 {(S)}	1,980	5 U	5 U [5 U]	5 U	NA	NA
Hexachlorobenzene	ug/L	{ID}	0.2 {(M); 0.0003}	3,000	6,200	**1 U**	**5 U [5 U]**	**1 U**	NA	NA
Hexachlorobutadiene	ug/L	{ID}	0.053	3,200 {(S)}	3,230	**5 U**	**5 U [5 U]**	**5 U**	NA	NA
Hexachlorocyclopentadiene	ug/L	{ID}	{ID}	420	1,800	5 U	5 U [5 U]	5 U	NA	NA
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	5 U	5 U [5 U]	5 U	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{ID}	{NLV}	0.022	**2 U**	**5 U [5 U]**	**2 UJ**	NA	NA
Isophorone	ug/L	{ID}	1,300 {(X)}	{NLV}	12,000,000	5 U	5 U [5 U]	5 U	NA	NA
Methylphenols, Total	ug/L	{NA}	30 {(M); 25}	{NLV}	28,000,000	5 U	5 U [5 U]	5 U	NA	NA
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	5 U	5 U [5 U]	5 U	NA	NA
Nitrobenzene	ug/L	{NA}	180 {(X)}	550,000	2,090,000	2 U	5 U [5 U]	2 U	NA	NA
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NA}	{NLV}	9,890,000	5 U	5 U [5 U]	5 U	NA	NA
N-Nitrosodiphenylamine	ug/L	{ID}	{NA}	{NLV}	35,100	5 U	5 U [5 U]	5 U	NA	NA
Pentachlorophenol	ug/L	{ID}	2.8 {(G,X)}	{NLV}	1,850,000	**20 U**	1 U [1 U]	**20 U**	NA	NA
Phenanthrene	ug/L	{ID}	2 {(M); 1.4}	1,000 {(S)}	1,000	**5 U**	**5 U [5 U]**	**5 U**	NA	NA

Table H-1

Priority #9 - AOI 83/84-1 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-83/84-01 09/21/01	RFI-83/84-01 04/04/05	RFI-83/84-20 02/22/02	RFI-83/84-20 06/20/02	RFI-83/84-20 04/02/03
Phenol	ug/L	{NA}	450	{NLV}	82,800,000	5 U	5 U [5 U]	5 U	NA	NA
Pyrene	ug/L	{ID}	{ID}	140 {(S)}	135	5 U	5 U [5 U]	5 U	NA	NA
PCB										
Aroclor-1016	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA
Aroclor-1221	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA
Total PCBs	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	0.1 U	NA	0.1 U	NA	NA
PCB-Dissolved										
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U	NA	NA
Total PCBs (Dissolved)	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	0.1 U	NA	0.1 U	NA	NA
Inorganic										
Antimony	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	NA	NA	NA	1.2 U	1.2 U
Arsenic	ug/L	{ID}	10	{NLV}	{NA}	NA	NA	NA	**14 (GSI (2013))**	**23 (GSI (2013))**
Barium	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	NA	NA	NA	120	130
Beryllium	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	NA	NA	NA	0.4 U	0.4 U
Cadmium	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	NA	NA	NA	0.14 J	0.2 U
Chromium Total	ug/L	- -	170 {(G,X)}	- -	- -	NA	NA	NA	0.61	0.29 J
Cobalt	ug/L	{ID}	100	{NLV}	{NA}	NA	NA	NA	6	2.4
Copper	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	NA	NA	NA	6.3	4.6
Cyanide (total)	ug/L	{ID}	5.2	{NLV}	{NA}	**51 (GSI (2013))**	NA	1.1 J	5 U	5 U
Lead	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	NA	NA	NA	17	1.6
Manganese	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	NA	NA	NA	610	600 J
Mercury	ug/L	{ID}	0.0013	56 {(S)}	56	**0.2 U**	NA	**0.2 U**	**0.2 U**	**0.2 U**
Nickel	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	NA	NA	NA	18	21
Selenium	ug/L	{ID}	5	{NLV}	{NA}	NA	NA	NA	1.4 U	1.6 U
Silver	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	NA	NA	NA	**0.4 UJ**	**0.4 U**
Thallium	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	NA	NA	NA	0.073 J	0.2 U
Vanadium	ug/L	{ID}	27	{NLV}	{NA}	NA	NA	NA	0.8 U	0.09 J
Zinc	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	NA	NA	NA	14 UJ	9.3

Table H-1

Priority #9 - AOI 83/84-1 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-83/84-01 09/21/01	RFI-83/84-01 04/04/05	RFI-83/84-20 02/22/02	RFI-83/84-20 06/20/02	RFI-83/84-20 04/02/03
Inorganic-Dissolved										
Antimony (Dissolved)	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	1.2 U	NA	1.2 UJ	NA	NA
Arsenic (Dissolved)	ug/L	{ID}	10	{NLV}	{NA}	1.8 J	NA	**17 J (GSI (2013))**	NA	NA
Barium (Dissolved)	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	110 J	NA	130 J	NA	NA
Beryllium (Dissolved)	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	0.4 U	NA	11 J	NA	NA
Cadmium (Dissolved)	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	0.2 U	NA	1.1 J	NA	NA
Chromium Total (Dissolved)	ug/L	- -	170 {(G,X)}	- -	- -	1.1	NA	14 J	NA	NA
Cobalt (Dissolved)	ug/L	{ID}	100	{NLV}	{NA}	0.67	NA	6 J	NA	NA
Copper (Dissolved)	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	9.6	NA	6.8 J	NA	NA
Cyanide (dissolved)	ug/L	{ID}	5.2	{NLV}	{NA}	**50 (GSI (2013))**	NA	5 U	NA	NA
Lead (Dissolved)	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	0.4 U	NA	3.3 J	NA	NA
Manganese (Dissolved)	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	480	NA	920 J	NA	NA
Mercury (Dissolved)	ug/L	- -	0.0013	- -	- -	**0.2 U**	NA	**0.2 U**	NA	NA
Nickel (Dissolved)	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	3.7	NA	24 J	NA	NA
Selenium (Dissolved)	ug/L	{ID}	5	{NLV}	{NA}	**5.6 J (GSI (2013))**	NA	2.6 J	NA	NA
Silver (Dissolved)	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	**1.4 J (GSI (2013))**	NA	**0.47 J (GSI (2013))**	NA	NA
Thallium (Dissolved)	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	0.2 U	NA	0.71 J	NA	NA
Vanadium (Dissolved)	ug/L	{ID}	27	{NLV}	{NA}	0.8 U	NA	2.3 J	NA	NA
Zinc (Dissolved)	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	6 U	NA	15 J	NA	NA

Table H-2

Priority #9 - AOI 83/84-1 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-83/84-29 1 - 2 10/15/13	MW-83/84-29 4 - 5 10/15/13	MW-83/84-29 6 - 7 10/15/13	MW-83/84-30 1 - 2 09/10/13	MW-83/84-30 9 - 10.5 09/10/13	MW-83/84-30 10.5 - 12 09/10/13
VOC														
1,1,1,2-Tetrachloroethane	mg/kg	440	- -	2,200	530,000	33	120	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.07 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.07 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.07 U
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.07 U
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.07 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.37 U	0.36 U	0.39 U	0.36 U	0.43 U	0.44 U
1,2,3-Trichloropropane	mg/kg	830	- -	4,200	8,800	7.5	11	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.37 U	0.36 U	0.39 U	0.36 U	0.43 U	0.44 U
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000	36,000,000	8,000	25,000	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.02 UM	0.02 UM	0.02 UM	0.02 UM	0.03 UM	0.03 UM
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.2
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.07 U
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.07 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000	36,000,000	4,800	19,000	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.84 U	0.83 U	0.88 U	0.82 U	0.97 U	1 U
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	3 U	3 U	3 U	3 U	3 U	3 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.37 U	0.36 U	0.39 U	0.36 U	0.43 U	0.44 U
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	3 U	3 U	3 U	3 U	3 U	3 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	1 U	1 U	1 U	1 U	1 U	1 U
Acrylonitrile	mg/kg	8,300	0.1	74	58,000	35	17	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.07 U
Bromobenzene	mg/kg	760	- -	1,700	240,000	580	540	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.2 U	0.2 U	0.2 U	0.2 U	0.3 U	0.3 U
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.07 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.2
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.07 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.07 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.07 U
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dibromomethane	mg/kg	2,000	- -	8,000	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Diethyl ether	mg/kg	7,400	- -	360,000	350,000,000	52,000	100,000	- -	0.2 U	0.2 U	0.2 U	0.2 U	0.3 U	0.3 U
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.07 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.3 U	0.3 U	0.4 U	0.3 U	0.4 U	0.4 U
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

Table H-2

Priority #9 - AOI 83/84-1 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-83/84-29 1 - 2 10/15/13	MW-83/84-29 4 - 5 10/15/13	MW-83/84-29 6 - 7 10/15/13	MW-83/84-30 1 - 2 09/10/13	MW-83/84-30 9 - 10.5 09/10/13	MW-83/84-30 10.5 - 12 09/10/13
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.2 U	0.2 U	0.2 U	0.2 U	0.3 U	0.3 U
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.37 U	0.36 U	0.39 U	0.36 U	0.43 U	0.44 U
n-Butylbenzene	mg/kg	10,000	- -	8,000	880,000	- -	- -	- -	0.06 U	0.09	0.07	0.05 U	0.06 U	0.3
n-Propylbenzene	mg/kg	10,000	- -	8,000	590,000	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.07 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.2
sec-Butylbenzene	mg/kg	10,000	- -	8,000	180,000	- -	- -	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.11
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.07 U
tert-Butylbenzene	mg/kg	10,000	- -	8,000	290,000	- -	- -	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.07 U
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.07 U
Tetrahydrofuran	mg/kg	120,000	220	9,500	170,000,000	2,400	15,000	- -	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.07 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.07 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.07 U
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.07 U
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.07 U
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	0.06 U	0.06 U	0.06 U	0.05 U	0.06 U	0.07 U
SVOC														
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.83 U	0.83 U	1.5 UX
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.83 U	0.83 U	1.5 UX
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	NA	NA	NA	2 U	2 U	2 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.83 U	0.83 U	1.5 UX
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	NA	NA	NA	0.83 U	0.83 U	1.5 UX
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	NA	NA	NA	0.28 U	0.28 U	1.5 UX
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.83 U	0.83 U	1.5 UX

Table H-2

Priority #9 - AOI 83/84-1 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-83/84-29 1 - 2 10/15/13	MW-83/84-29 4 - 5 10/15/13	MW-83/84-29 6 - 7 10/15/13	MW-83/84-30 1 - 2 09/10/13	MW-83/84-30 9 - 10.5 09/10/13	MW-83/84-30 10.5 - 12 09/10/13
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.83 U	0.83 U	1.5 UX
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	NA	NA	NA	0.347	0.33 U	1.5 UX
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	NA	NA	NA	0.806	0.33 U	1.8 X
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	NA	NA	NA	1.431	0.419	1.8 X
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	NA	NA	NA	1.358	0.826	1.5 UX
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	NA	NA	NA	0.899	0.756	1.5 UX
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	NA	NA	NA	0.663	0.667	1.5 UX
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	NA	NA	NA	0.941	0.527	1.5 UX
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	NA	NA	NA	1.406	0.643	2.5 X
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	NA	NA	NA	0.33 U	0.33 U	**1.8 X (GSIP (2013))**
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	NA	NA	NA	2.951	0.651	4.9 X
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	NA	NA	NA	0.365	0.33 U	4.8 X
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	NA	NA	NA	0.83	0.744	1.5 UX
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	2.9 UX
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	NA	NA	NA	**2.556 (GSIP (2013))**	0.33 U	**3.8 X (GSIP (2013))**
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	1.5 UX
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	NA	NA	NA	2.441	0.686	4 X
PCB														
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Inorganic														
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	0.97	0.87	0.94	0.71	0.57	1.32

Table H-2

Priority #9 - AOI 83/84-1 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-83/84-29 1 - 2 10/15/13	MW-83/84-29 4 - 5 10/15/13	MW-83/84-29 6 - 7 10/15/13	MW-83/84-30 1 - 2 09/10/13	MW-83/84-30 9 - 10.5 09/10/13	MW-83/84-30 10.5 - 12 09/10/13
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	6.08	3.93	5.8	5.5	9.5	3.3
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	0.72	0.9	1.24	0.73	1.06	0.56
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	1.19	0.69	0.85	0.52	1.26	0.87
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	2.99	4.42	4.35	2.8	11.5	4.1
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	2.31	2.74	2.95	1.85	4.88	2.55
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	154 (GSIP (2013))	91.5	123 (GSIP (2013))	124 (GSIP (2013))	81.2	149 (GSIP (2013))
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	6.65	3.78	3.32	1.36	1.66	1.14
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	0.4 U	0.4 U	0.4 U	0.5 U	0.5 U	0.5 U
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	1.27	2.1	2.45	1	2.18	1.71
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	6.49	7.95	8.48	5.4	3.5	7.7
Miscellaneous														
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	960,000	960,000	920,000	960,000	860,000	860,000

Table H-3

Priority #9 - AOI 83/84-1 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	MW-83/84-15 08/02/13
VOC		
1,1,1,2-Tetrachloroethane	mg/kg	0.5 UY
1,1,1-Trichloroethane	mg/kg	0.5 UY
1,1,2,2-Tetrachloroethane	mg/kg	0.5 UY
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	NA
1,1,2-Trichloroethane	mg/kg	0.5 UY
1,1-Dichloroethane	mg/kg	0.5 UY
1,1-Dichloroethene	mg/kg	0.5 UY
1,2,3-Trichlorobenzene	mg/kg	0.5 UY
1,2,3-Trichloropropane	mg/kg	0.5 UY
1,2,3-Trimethylbenzene	mg/kg	2.1 Y
1,2,4-Trichlorobenzene	mg/kg	0.5 UY
1,2,4-Trimethylbenzene	mg/kg	2.8 Y
1,2-Dibromo-3-chloropropane	mg/kg	0.5 UY
1,2-Dibromoethane	mg/kg	0.5 UY
1,2-Dichlorobenzene	mg/kg	38.2 Y
1,2-Dichloroethane	mg/kg	0.5 UY
1,2-Dichloropropane	mg/kg	0.5 UY
1,3,5-Trimethylbenzene	mg/kg	1 Y
1,3-Dichlorobenzene	mg/kg	1.4 Y
1,4-Dichlorobenzene	mg/kg	9.2 Y
2-Butanone	mg/kg	5 UY
2-Hexanone	mg/kg	5 UY
2-Methylnaphthalene	mg/kg	3 Y
4-Methyl-2-pentanone	mg/kg	5 UY
Acetone	mg/kg	5 UY
Acrylonitrile	mg/kg	0.5 UY
Benzene	mg/kg	0.5 UY
Bromobenzene	mg/kg	0.5 UY
Bromochloromethane	mg/kg	0.5 UY
Bromodichloromethane	mg/kg	0.5 UY
Bromoform	mg/kg	0.5 UY
Bromomethane	mg/kg	0.5 UY
Carbon Disulfide	mg/kg	0.5 UY
Carbon Tetrachloride	mg/kg	0.5 UY
Chlorobenzene	mg/kg	16 Y
Chloroethane	mg/kg	0.5 UY
Chloroform	mg/kg	0.5 UY
Chloromethane	mg/kg	0.5 UY
cis-1,2-Dichloroethene	mg/kg	0.5 UY
cis-1,3-Dichloropropene	mg/kg	0.5 UY
Cyclohexane	mg/kg	NA
Dibromochloromethane	mg/kg	0.5 UY
Dibromomethane	mg/kg	0.5 UY
Dichlorodifluoromethane	mg/kg	0.5 UY
Diethyl ether	mg/kg	0.5 UY
Ethylbenzene	mg/kg	0.5 UY
Hexachloroethane	mg/kg	0.5 UY

Table H-3

Priority #9 - AOI 83/84-1 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	MW-83/84-15 08/02/13
Iodomethane	mg/kg	0.5 UY
Isopropylbenzene	mg/kg	0.5 UY
m&p-Xylene	mg/kg	1 UY
Methyl acetate	mg/kg	NA
Methyl tert-butyl ether	mg/kg	0.5 UY
Methylcyclohexane	mg/kg	NA
Methylene Chloride	mg/kg	1 UY
Naphthalene	mg/kg	13 Y
n-Butylbenzene	mg/kg	0.8 Y
n-Propylbenzene	mg/kg	0.5 UY
o-Xylene	mg/kg	0.6 Y
p-Isopropyltoluene	mg/kg	0.8 Y
sec-Butylbenzene	mg/kg	0.5 UY
Styrene	mg/kg	0.5 UY
tert-Butylbenzene	mg/kg	0.5 UY
Tetrachloroethene	mg/kg	0.5 UY
Tetrahydrofuran	mg/kg	5 UY
Toluene	mg/kg	0.6 Y
trans-1,2-Dichloroethene	mg/kg	0.5 UY
trans-1,3-Dichloropropene	mg/kg	0.5 UY
trans-1,4-Dichloro-2-butene	mg/kg	0.5 UY
Trichloroethene	mg/kg	0.5 UY
Trichlorofluoromethane	mg/kg	0.5 UY
Vinyl Chloride	mg/kg	0.5 UY
Xylenes (total)	mg/kg	0.6
SVOC		
1,1'-Biphenyl	mg/kg	NA
1,2,4-Trichlorobenzene	mg/kg	145 UXL
1,2-Dichlorobenzene	mg/kg	145 UXL
1,2-Diphenylhydrazine	mg/kg	145 UXL
1,3-Dichlorobenzene	mg/kg	145 UXL
1,4-Dichlorobenzene	mg/kg	145 UXL
2,2'-Oxybis(1-Chloropropane)	mg/kg	145 UXL
2,4,5-Trichlorophenol	mg/kg	145 UXL
2,4,6-Trichlorophenol	mg/kg	145 UXL
2,4-Dichlorophenol	mg/kg	145 UXL
2,4-Dimethylphenol	mg/kg	145 UXL
2,4-Dinitrophenol	mg/kg	145 UXL
2,4-Dinitrotoluene	mg/kg	145 UXL
2,6-Dinitrotoluene	mg/kg	145 UXL
2-Chloronaphthalene	mg/kg	145 UXL
2-Chlorophenol	mg/kg	145 UXL
2-Methylnaphthalene	mg/kg	145 UXL
2-Methylphenol	mg/kg	145 UXL
2-Nitroaniline	mg/kg	145 UXL
2-Nitrophenol	mg/kg	145 UXL
3&4-Methylphenol	mg/kg	145 UXL
3,3'-Dichlorobenzidine	mg/kg	145 UXL

Table H-3

Priority #9 - AOI 83/84-1 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	MW-83/84-15 08/02/13
3-Nitroaniline	mg/kg	145 UXL
4,6-Dinitro-2-methylphenol	mg/kg	145 UXL
4-Bromophenyl-phenylether	mg/kg	145 UXL
4-Chloro-3-Methylphenol	mg/kg	145 UXL
4-Chloroaniline	mg/kg	145 UXL
4-Chlorophenyl-phenylether	mg/kg	145 UXL
4-Nitroaniline	mg/kg	145 UXL
4-Nitrophenol	mg/kg	145 UXL
Acenaphthene	mg/kg	145 UXL
Acenaphthylene	mg/kg	145 UXL
Acetophenone	mg/kg	NA
Anthracene	mg/kg	145 UXL
Atrazine	mg/kg	NA
Benzaldehyde	mg/kg	NA
Benzo(a)anthracene	mg/kg	145 UXL
Benzo(a)pyrene	mg/kg	145 UXL
Benzo(b)fluoranthene	mg/kg	145 UXL
Benzo(g,h,i)perylene	mg/kg	145 UXL
Benzo(k)fluoranthene	mg/kg	145 UXL
bis(2-Chloroethoxy)methane	mg/kg	145 UXL
bis(2-Chloroethyl)ether	mg/kg	145 UXL
bis(2-Ethylhexyl)phthalate	mg/kg	145 UXL
Butylbenzylphthalate	mg/kg	145 UXL
Caprolactam	mg/kg	NA
Carbazole	mg/kg	NA
Chrysene	mg/kg	145 UXL
Dibenzo(a,h)anthracene	mg/kg	145 UXL
Dibenzofuran	mg/kg	145 UXL
Diethylphthalate	mg/kg	145 UXL
Dimethylphthalate	mg/kg	145 UXL
Di-n-Butylphthalate	mg/kg	145 UXL
Di-n-Octylphthalate	mg/kg	145 UXL
Fluoranthene	mg/kg	145 UXL
Fluorene	mg/kg	145 UXL
Hexachlorobenzene	mg/kg	145 UXL
Hexachlorobutadiene	mg/kg	145 UXL
Hexachlorocyclopentadiene	mg/kg	145 UXL
Hexachloroethane	mg/kg	145 UXL
Indeno(1,2,3-cd)pyrene	mg/kg	145 UXL
Isophorone	mg/kg	145 UXL
Methylphenols, Total	mg/kg	145 U
Naphthalene	mg/kg	145 UXL
Nitrobenzene	mg/kg	145 UXL
N-Nitroso-di-n-propylamine	mg/kg	145 UXL
N-Nitrosodiphenylamine	mg/kg	290 UXL
Pentachlorophenol	mg/kg	145 UXL
Phenanthrene	mg/kg	177 XL
Phenol	mg/kg	145 UXL

Table H-3

Priority #9 - AOI 83/84-1 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	MW-83/84-15 08/02/13
Pyrene	mg/kg	145 UXL
PCB		
Aroclor-1016	mg/kg	1 U
Aroclor-1221	mg/kg	1 U
Aroclor-1232	mg/kg	1 U
Aroclor-1242	mg/kg	1 U
Aroclor-1248	mg/kg	1 U
Aroclor-1254	mg/kg	1 U
Aroclor-1260	mg/kg	1 U
Aroclor-1262	mg/kg	NA
Aroclor-1268	mg/kg	NA
Total PCBs	mg/kg	1 U
Inorganic		
Antimony	mg/kg	0.5 U
Arsenic	mg/kg	0.45
Barium	mg/kg	1 U
Beryllium	mg/kg	0.2 U
Cadmium	mg/kg	0.2 U
Chromium Total	mg/kg	0.63
Cobalt	mg/kg	0.5 U
Copper	mg/kg	0.5 U
Cyanide (total)	mg/kg	NA
Lead	mg/kg	0.3 U
Manganese	mg/kg	0.5 U
Mercury	mg/kg	NA
Nickel	mg/kg	0.5 U
Selenium	mg/kg	0.4 U
Silver	mg/kg	0.2 U
Thallium	mg/kg	0.2 U
Vanadium	mg/kg	0.5 U
Zinc	mg/kg	1 U
Miscellaneous		
Asbestos	mg/kg	NA
Ignitability	deg f	NA
Interfacial Tension	dynes/cm	NA
Specific gravity	sg	NA
Viscosity	cp	NA

Table I-1

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	GAI	GSI	NGVIA	RFI-83/84-51 09/19/03	RFI-83/84-51 10/14/03
VOC						
1,1,1-Trichloroethane	ug/L	1,300,000	89	1,300,000	1 U	NA
1,1,2,2-Tetrachloroethane	ug/L	- -	78	77,000	1 U	NA
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	170,000	32	170,000	1 U	NA
1,1,2-Trichloroethane	ug/L	- -	330	110,000	1 U	NA
1,1-Dichloroethane	ug/L	- -	740	2,300,000	0.52 J	NA
1,1-Dichloroethene	ug/L	140,000	130	1,300	1 U	NA
1,2,4-Trichlorobenzene	ug/L	300,000	99	300,000	5 U	NA
1,2-Dibromo-3-chloropropane	ug/L	- -	- -	- -	1 U	NA
1,2-Dibromoethane	ug/L	- -	5.7	15,000	1 U	NA
1,2-Dichlorobenzene	ug/L	160,000	13	160,000	1 U	NA
1,2-Dichloroethane	ug/L	- -	360	59,000	1 U	NA
1,2-Dichloropropane	ug/L	2,800,000	230	36,000	1 U	NA
1,3-Dichlorobenzene	ug/L	- -	28	41,000	1 U	NA
1,4-Dichlorobenzene	ug/L	- -	17	74,000	1 U	NA
2-Butanone	ug/L	240,000,000	2,200	240,000,000	25 U	NA
2-Hexanone	ug/L	- -	- -	8,700,000	50 U	NA
4-Methyl-2-pentanone	ug/L	20,000,000	- -	20,000,000	50 U	NA
Acetone	ug/L	1,000,000,000	1,700	1,000,000,000	25 U	NA
Benzene	ug/L	67,000	200	35,000	1 U	NA
Bromodichloromethane	ug/L	- -	- -	37,000	1 U	NA
Bromoform	ug/L	- -	- -	3,100,000	1 U	NA
Bromomethane	ug/L	- -	35	9,000	1 U	NA

Table I-1

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	GAI	GSI	NGVIA	RFI-83/84-51 09/19/03	RFI-83/84-51 10/14/03
Carbon Disulfide	ug/L	- -	- -	550,000	5 U	NA
Carbon Tetrachloride	ug/L	96,000	45	2,400	1 U	NA
Chlorobenzene	ug/L	- -	25	470,000	1 U	NA
Chloroethane	ug/L	- -	1,100	5,700,000	1 U	NA
Chloroform	ug/L	- -	350	180,000	1 U	NA
Chloromethane	ug/L	210,000	- -	45,000	1 U	NA
cis-1,2-Dichloroethene	ug/L	- -	620	210,000	1 U	NA
cis-1,3-Dichloropropene	ug/L	- -	9	26,000	1 U	NA
Cyclohexane	ug/L	- -	- -	- -	5 U	NA
Dibromochloromethane	ug/L	- -	- -	110,000	1 U	NA
Dichlorodifluoromethane	ug/L	- -	- -	300,000	1 U	NA
Ethylbenzene	ug/L	170,000	18	170,000	1 U	NA
Isopropylbenzene	ug/L	- -	28	56,000	5 U	NA
m&p-Xylene	ug/L	190,000	41	190,000	2 U	NA
Methyl acetate	ug/L	- -	- -	- -	5 U	NA
Methyl tert-butyl ether	ug/L	- -	7,100	47,000,000	5 U	NA
Methylcyclohexane	ug/L	- -	- -	- -	1 U	NA
Methylene Chloride	ug/L	- -	1,500	1,400,000	5 U	NA
o-Xylene	ug/L	190,000	41	190,000	1 U	NA
Styrene	ug/L	310,000	80	310,000	1 U	NA
Tetrachloroethene	ug/L	200,000	60	170,000	1 U	NA
Toluene	ug/L	- -	270	530,000	1 U	NA
trans-1,2-Dichloroethene	ug/L	- -	1,500	200,000	1 U	NA
trans-1,3-Dichloropropene	ug/L	- -	9	26,000	1 U	NA

Table I-1

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	GAI	GSI	NGVIA	RFI-83/84-51 09/19/03	RFI-83/84-51 10/14/03
Trichloroethene	ug/L	1,100,000	200	4,900	1 U	NA
Trichlorofluoromethane	ug/L	1,100,000	- -	1,100,000	1 U	NA
Vinyl Chloride	ug/L	- -	13	13,000	1 U	NA
SVOC						
1,1'-Biphenyl	ug/L	- -	- -	- -	NA	5 U [5 U]
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	NA	5 U [5 U]
2,4,5-Trichlorophenol	ug/L	- -	- -	- -	NA	5 U [5 U]
2,4,6-Trichlorophenol	ug/L	- -	5	- -	NA	4 U [4 U]
2,4-Dichlorophenol	ug/L	- -	11	- -	NA	10 U [10 U]
2,4-Dimethylphenol	ug/L	- -	380	- -	NA	5 U [5 U]
2,4-Dinitrophenol	ug/L	- -	- -	- -	NA	20 U [20 U]
2,4-Dinitrotoluene	ug/L	- -	- -	- -	NA	5 U [5 U]
2,6-Dinitrotoluene	ug/L	- -	- -	- -	NA	5 U [5 U]
2-Chloronaphthalene	ug/L	- -	- -	- -	NA	5 U [5 U]
2-Chlorophenol	ug/L	- -	18	1,100,000	NA	5 U [5 U]
2-Methylnaphthalene	ug/L	- -	19	25,000	NA	5 U [5 U]
2-Methylphenol	ug/L	- -	30	- -	NA	5 U [5 U]
2-Nitroaniline	ug/L	- -	- -	- -	NA	20 U [20 U]
2-Nitrophenol	ug/L	- -	- -	- -	NA	5 U [5 U]
3&4-Methylphenol	ug/L	- -	30	- -	NA	10 UJ [10 UJ]
3,3'-Dichlorobenzidine	ug/L	- -	0.3	- -	NA	20 U [20 U]
3-Nitroaniline	ug/L	- -	- -	- -	NA	20 U [20 U]
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	NA	20 U [20 U]

Table I-1

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	GAI	GSI	NGVIA	RFI-83/84-51 09/19/03	RFI-83/84-51 10/14/03
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	NA	5 U [5 U]
4-Chloro-3-Methylphenol	ug/L	- -	7.4	- -	NA	5 U [5 U]
4-Chloroaniline	ug/L	- -	- -	- -	NA	20 U [20 U]
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	NA	5 U [5 U]
4-Nitroaniline	ug/L	- -	- -	- -	NA	20 U [20 U]
4-Nitrophenol	ug/L	- -	- -	- -	NA	20 U [20 U]
Acenaphthene	ug/L	- -	38	4,200	NA	5 U [5 U]
Acenaphthylene	ug/L	- -	- -	3,900	NA	5 U [5 U]
Acetophenone	ug/L	- -	- -	6,100,000	NA	5 U [5 U]
Anthracene	ug/L	- -	- -	43	NA	5 U [5 U]
Atrazine	ug/L	- -	7.3	- -	NA	5 UJ [5 U]
Benzaldehyde	ug/L	- -	- -	- -	NA	5 U [5 U]
Benzo(a)anthracene	ug/L	- -	- -	- -	NA	1 U [1 U]
Benzo(a)pyrene	ug/L	- -	- -	- -	NA	2 U [2 U]
Benzo(b)fluoranthene	ug/L	- -	- -	- -	NA	2 U [2 U]
Benzo(g,h,i)perylene	ug/L	- -	- -	- -	NA	5 U [5 U]
Benzo(k)fluoranthene	ug/L	- -	- -	- -	NA	5 U [5 U]
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	NA	5 U [5 U]
bis(2-Chloroethyl)ether	ug/L	17,000,000	1	210,000	NA	1.5 U [1.5 U]
bis(2-Ethylhexyl)phthalate	ug/L	340	25	- -	NA	5 U [5 U]
Butylbenzylphthalate	ug/L	- -	67	- -	NA	5 U [5 U]
Caprolactam	ug/L	1,000,000,000	- -	- -	NA	10 U [10 U]
Carbazole	ug/L	- -	10	- -	NA	10 U [10 U]
Chrysene	ug/L	- -	- -	- -	NA	5 U [5 U]

Table I-1

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	GAI	GSI	NGVIA	RFI-83/84-51 09/19/03	RFI-83/84-51 10/14/03
Dibenzo(a,h)anthracene	ug/L	- -	- -	- -	NA	2 U [2 U]
Dibenzofuran	ug/L	- -	4	10,000	NA	4 U [4 U]
Diethylphthalate	ug/L	- -	110	- -	NA	5 U [5 U]
Dimethylphthalate	ug/L	- -	- -	- -	NA	5 U [5 U]
Di-n-Butylphthalate	ug/L	- -	9.7	- -	NA	5 U [5 U]
Di-n-Octylphthalate	ug/L	- -	- -	- -	NA	5 U [5 U]
Fluoranthene	ug/L	- -	1.6	210	NA	2 U [2 U]
Fluorene	ug/L	- -	12	2,000	NA	5 U [5 U]
Hexachlorobenzene	ug/L	- -	0.2	3,000	NA	1 U [1 U]
Hexachlorobutadiene	ug/L	- -	0.053	3,200	NA	5 U [5 U]
Hexachlorocyclopentadiene	ug/L	- -	- -	420	NA	5 UJ [5 U]
Hexachloroethane	ug/L	- -	6.7	50,000	NA	5 U [5 U]
Indeno(1,2,3-cd)pyrene	ug/L	- -	- -	- -	NA	2 U [2 U]
Isophorone	ug/L	12,000,000	1,300	- -	NA	5 U [5 U]
Methylphenols, Total	ug/L	- -	30	- -	NA	5 U [5 U]
Naphthalene	ug/L	31,000	11	31,000	NA	1.34 J [5 U]
Nitrobenzene	ug/L	- -	180	550,000	NA	2 U [2 U]
N-Nitroso-di-n-propylamine	ug/L	- -	- -	- -	NA	5 U [5 U]
N-Nitrosodiphenylamine	ug/L	- -	- -	- -	NA	5 U [5 U]
Pentachlorophenol	ug/L	- -	2.8	- -	NA	20 U [20 U]
Phenanthrene	ug/L	- -	2	1,000	NA	5 U [5 U]
Phenol	ug/L	- -	450	- -	NA	5 U [5 U]
Pyrene	ug/L	- -	- -	140	NA	5 U [5 U]

Table I-1

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	GAI	GSI	NGVIA	RFI-83/84-51 09/19/03	RFI-83/84-51 10/14/03
PCB						
Aroclor-1016	ug/L	- -	0.2	45	0.1 U	NA
Aroclor-1221	ug/L	- -	0.2	45	0.1 U	NA
Aroclor-1232	ug/L	- -	0.2	45	0.1 U	NA
Aroclor-1242	ug/L	- -	0.2	45	0.1 U	NA
Aroclor-1248	ug/L	- -	0.2	45	0.1 U	NA
Aroclor-1254	ug/L	- -	0.2	45	0.1 U	NA
Aroclor-1260	ug/L	- -	0.2	45	0.1 U	NA
Total PCBs	ug/L	- -	0.2	45	0.1 U	NA
PCB-Dissolved						
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	0.1 U	NA
Total PCBs (Dissolved)	ug/L	- -	0.2	45	0.1 U	NA
Inorganic						
Antimony	ug/L	- -	130	- -	2.2 J	NA
Arsenic	ug/L	- -	10	- -	**110 J(GSI)**	NA
Barium	ug/L	- -	1,308	- -	400	NA
Beryllium	ug/L	- -	32.3	- -	**140 J(GSI)**	NA

Table I-1

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	GAI	GSI	NGVIA	RFI-83/84-51 09/19/03	RFI-83/84-51 10/14/03
Cadmium	ug/L	- -	4.8	- -	2.7 J	NA
Chromium Total	ug/L	- -	172	- -	16	NA
Cobalt	ug/L	- -	6,800	- -	11 J	NA
Copper	ug/L	- -	21.6	- -	**31 J(GSI)**	NA
Cyanide (total)	ug/L	- -	5.2	- -	5 U	NA
Lead	ug/L	- -	30.9	- -	8.1	NA
Manganese	ug/L	- -	4,767	- -	360 J	NA
Mercury	ug/L	- -	130	130	0.2 U	NA
Nickel	ug/L	- -	124.3	- -	42 J	NA
Selenium	ug/L	- -	410	- -	3 J	NA
Silver	ug/L	- -	.2	- -	**1.9 J**	NA
Thallium	ug/L	- -	3.7	- -	1 J	NA
Vanadium	ug/L	- -	27	- -	10 J	NA
Zinc	ug/L	- -	282.7	- -	71 J	NA
Inorganic-Dissolved						
Antimony (Dissolved)	ug/L	- -	130	- -	1.4 J	NA
Arsenic (Dissolved)	ug/L	- -	10	- -	**97 J(GSI)**	NA
Barium (Dissolved)	ug/L	- -	1,308	- -	300	NA
Beryllium (Dissolved)	ug/L	- -	32.3	- -	27 J	NA
Cadmium (Dissolved)	ug/L	- -	4.8	- -	1.6 J	NA
Chromium Total (Dissolved)	ug/L	- -	172	- -	2.5 J	NA
Cobalt (Dissolved)	ug/L	- -	6,800	- -	5 J	NA
Copper (Dissolved)	ug/L	- -	21.6	- -	11 J	NA

Table I-1

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	GAI	GSI	NGVIA	RFI-83/84-51 09/19/03	RFI-83/84-51 10/14/03
Cyanide (dissolved)	ug/L	- -	5.2	- -	5 U	NA
Lead (Dissolved)	ug/L	- -	30.9	- -	0.52 J	NA
Manganese (Dissolved)	ug/L	- -	4,767	- -	180 J	NA
Mercury (Dissolved)	ug/L	- -	130	130	0.2 U	NA
Nickel (Dissolved)	ug/L	- -	124.3	- -	24 J	NA
Selenium (Dissolved)	ug/L	- -	410	- -	1.9	NA
Silver (Dissolved)	ug/L	- -	1,000	- -	1.4 J	NA
Thallium (Dissolved)	ug/L	- -	3.7	- -	0.6 J	NA
Vanadium (Dissolved)	ug/L	- -	27	- -	0.8 UJ	NA
Zinc (Dissolved)	ug/L	- -	282.7	- -	40 J	NA

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-07 0.9 - 2.9 07/25/01	RFI-83/84-07 8.9 - 10.9 07/25/01	RFI-83/84-08 0.7 - 2.7 07/24/01	RFI-83/84-08 8.7 - 10.7 07/24/01
VOC												
1,1,1,2-Tetrachloroethane	mg/kg	440	- -	2,200	530,000	33	120	- -	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.035 U	0.038 U	0.036 U	0.045 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.071 U	0.075 U	0.073 UJ	0.091 UJ
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	0.15 U	0.16 U	0.16 U	0.19 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.035 U	0.038 U	0.036 U	0.045 U
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.035 U	0.038 U	0.036 U	0.045 U
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.035 U	0.038 U	0.036 U	0.045 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	- -	4,200	8,800	7.5	11	- -	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.15 U	0.16 U	0.16 UJ	0.19 UJ
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000	36,000,000	8,000	25,000	- -	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.15 U	0.16 U	0.16 U	0.19 U
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.15 U	0.16 U	0.16 U	0.19 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.071 U	0.075 U	0.074	0.091 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.035 U	0.038 U	0.036 UJ	0.045 UJ
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.035 U	0.038 U	0.036 U	0.045 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000	36,000,000	4,800	19,000	- -	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.071 U	0.075 U	0.073 U	0.091 U
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.071 U	0.075 U	0.073 U	0.091 U
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.25 UJ	0.27 UJ	0.26 UJ	0.32 UJ
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	0.25 U	0.27 U	0.26 UJ	0.32 UJ
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	0.25 U	0.27 U	0.26 UJ	0.32 UJ
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	0.25 UJ	0.27 UJ	1.5 UJ	1.8 UJ
Acrylonitrile	mg/kg	8,300	0.1	74	58,000	35	17	- -	NA	NA	NA	NA
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.035 U	0.038 U	0.036 U	0.045 U
Bromobenzene	mg/kg	760	- -	1,700	240,000	580	540	- -	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.071 U	0.075 U	0.073 U	0.091 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.071 U	0.075 U	0.073 U	0.091 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.15 U	0.16 U	0.16 U	0.19 U
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.15 U	0.16 U	0.16 U	0.19 U
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.035 U	0.038 U	0.036 U	0.045 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.035 U	0.038 U	0.036 U	0.045 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.15 U	0.16 U	0.16 U	0.19 U
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.035 U	0.038 U	0.036 U	0.045 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.15 U	0.16 U	0.16 U	0.19 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.035 U	0.038 U	0.036 U	0.045 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.035 U	0.038 U	0.036 U	0.045 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.15 U	0.16 U	0.16 U	0.19 U
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.071 U	0.075 U	0.073 U	0.091 U
Dibromomethane	mg/kg	2,000	- -	8,000	- -	- -	- -	- -	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.071 U	0.075 U	0.073 U	0.091 U
Diethyl ether	mg/kg	7,400	- -	360,000	350,000,000	52,000	100,000	- -	NA	NA	NA	NA

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-07 0.9 - 2.9 07/25/01	RFI-83/84-07 8.9 - 10.9 07/25/01	RFI-83/84-08 0.7 - 2.7 07/24/01	RFI-83/84-08 8.7 - 10.7 07/24/01
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.035 U	0.038 U	0.036 U	0.045 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.15 U	0.16 U	0.16 U	0.19 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.05 J	0.08	0.086	0.042 J
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.075 J	0.16 U	0.16 UJ	0.19 UJ
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.25 U	0.27 U	0.26 U	0.32 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.081 J	0.16 U	0.16 U	0.19 U
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.15 UJ	0.16 UJ	0.16 UJ	0.19 UJ
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	- -	8,000	880,000	- -	- -	- -	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	- -	8,000	590,000	- -	- -	- -	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.035 U	0.038 U	0.036 U	0.045 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	- -	8,000	180,000	- -	- -	- -	NA	NA	NA	NA
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.035 U	0.038 U	0.036 U	0.045 U
tert-Butylbenzene	mg/kg	10,000	- -	8,000	290,000	- -	- -	- -	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.035 U	0.038 U	0.036 U	0.045 U
Tetrahydrofuran	mg/kg	120,000	220	9,500	170,000,000	2,400	15,000	- -	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.035 U	0.038 U	0.035 J	0.045 U
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.035 U	0.038 U	0.036 U	0.045 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.035 U	0.038 U	0.036 UJ	0.045 UJ
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.11	0.038 U	0.036 U	0.045 U
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.071 U	0.075 U	0.073 U	0.091 U
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.035 U	0.038 U	0.036 U	0.045 U
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	0.035 U	0.038 U	0.036 U	0.045 U
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.19 U	0.17 U	0.22 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.19 U	0.17 U	0.22 U
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.17 U	0.19 U	0.17 U	0.22 U
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.17 U	0.19 U	0.17 U	0.22 U
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.17 U	0.19 U	0.17 U	0.22 U
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.17 U	0.19 U	0.17 U	0.22 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.68 UJ	0.74 UJ	0.68 U	0.86 UJ
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.68 U	0.74 U	0.68 U	0.86 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.19 U	0.17 U	0.22 U
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.17 U	0.19 U	0.17 U	0.22 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.17 U	0.19 U	0.17 U	0.22 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.17 U	0.19 U	0.17 U	0.22 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.19 U	0.17 U	0.22 U

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-07 0.9 - 2.9 07/25/01	RFI-83/84-07 8.9 - 10.9 07/25/01	RFI-83/84-08 0.7 - 2.7 07/24/01	RFI-83/84-08 8.7 - 10.7 07/24/01
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.68 U	0.74 U	0.68 U	0.86 U
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.17 U	0.19 U	0.17 U	0.22 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.34 UJ	0.37 UJ	0.35 U	0.44 UJ
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	0.68 U	0.74 UJ	0.68 UJ	0.86 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.68 U	0.74 U	0.68 U	0.86 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	0.68 UJ	0.74 UJ	0.68 U	0.86 UJ
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.19 U	0.17 U	0.22 U
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.17 U	0.19 U	0.17 U	0.22 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.68 U	0.74 U	0.68 U	0.86 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.68 U	0.74 U	0.68 U	0.86 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.68 U	0.74 U	0.68 U	0.86 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.68 U	0.74 U	0.68 U	0.86 U
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.17 U	0.19 U	0.17 U	0.22 U
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.17 U	0.19 U	0.17 U	0.22 U
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	0.17 U	0.19 U	0.17 U	0.22 U
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.17 U	0.19 U	0.17 U	0.22 U
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	0.17 U	0.19 U	0.17 U	0.22 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.19 U	0.17 U	0.22 U
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.17 U	0.19 UJ	0.17 UJ	0.22 U
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	0.17 U	R	0.17 UJ	0.22 U
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.118 J	R	0.17 UJ	0.22 U
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	0.17 U	R	0.17 UJ	0.22 U
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	0.17 U	R	0.17 UJ	0.22 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.19 U	0.17 U	0.22 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.033 U	0.036 U	0.034 U	0.042 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.17 U	0.19 UJ	0.17 UJ	0.22 U
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	0.17 U	0.19 UJ	0.17 UJ	0.22 U
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	0.17 U	0.19 U	0.17 U	0.22 U
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	0.17 U	0.19 U	0.17 U	0.22 U
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	0.042 J	0.19 UJ	0.17 U	0.22 U
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	0.17 U	R	0.17 UJ	0.22 U
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.17 U	0.19 U	0.17 U	0.22 U
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.17 U	0.19 U	0.17 U	0.22 U
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.17 U	0.19 U	0.17 U	0.22 U
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.0953 J	0.19 U	0.17 U	0.22 U
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.17 U	R	0.17 UJ	0.22 U
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	0.0376 J	0.19 U	0.17 U	0.22 U
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.17 U	0.19 U	0.17 U	0.22 U
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.17 U	0.19 U	0.17 U	0.22 U
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.17 U	0.19 U	0.17 U	0.22 U
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.17 U	0.19 U	0.17 U	0.22 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.17 U	0.19 U	0.17 U	0.22 U
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.17 U	R	0.17 UJ	0.22 U
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.17 U	0.19 U	0.17 U	0.22 U
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.17 U	0.19 U	0.17 U	0.22 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.17 U	0.19 U	0.182	0.22 U

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-07 0.9 - 2.9 07/25/01	RFI-83/84-07 8.9 - 10.9 07/25/01	RFI-83/84-08 0.7 - 2.7 07/24/01	RFI-83/84-08 8.7 - 10.7 07/24/01
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.068 U	0.074 U	0.068 U	0.086 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.17 U	0.19 U	0.17 U	0.22 U
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.17 U	0.19 U	0.17 U	0.22 U
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	0.68 U	0.74 U	0.68 U	0.86 U
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	0.0903 J	0.19 U	0.17 U	0.22 U
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.17 U	0.19 U	0.17 U	0.22 U
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	0.17 U	0.19 UJ	0.17 UJ	0.22 U
PCB												
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.035 U	0.038 U	0.036 U	0.045 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.035 U	0.038 U	0.036 U	0.045 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.035 U	0.038 U	0.036 U	0.045 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.035 U	0.038 U	0.036 U	0.045 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.035 U	0.038 U	0.036 U	0.045 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.035 U	0.038 U	0.036 U	0.045 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.035 U	0.038 U	0.036 U	0.045 U
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.035 U	0.038 U	0.036 U	0.045 U
Inorganic												
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	0.2 U	0.2 U	0.22 U	0.29 U
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	0.89	2.5	1.9	**10 (GSIP (2013),SDBL (2013))**
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	7.7	14	19	**77 (SDBL (2013))**
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	0.076 J	0.15	0.18	0.72
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	0.054	0.054	0.041	0.54
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	3.6	6.2	4.8	**22 (SDBL (2013))**
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	0.78	**2.2 (GSIP (2013))**	1.8	**7.4 (GSIP (2013),SDBL (2013))**
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	4.3 J	7.5 J	3.5 J	12 J
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	0.2 U	0.2 U	0.2 U	0.2 U
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	20 J	5.7 J	8.7 J	16 J
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	35 J	41 J	76 J	**220 J (GSIP (2013))**
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	0.071 U	0.076 U	0.07 U	**0.0822 J (GSIP (2013))**
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	3.3	5.8	4.2	13
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	0.15 U	0.26 UJ	0.16 U	0.91 U
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	0.19 U	0.2 U	0.011 J	0.047 J
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.02 J	0.051 J	0.11 J	0.27 J
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	4.4	11	8.3	37
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	20	22	16	**82 (SDBL (2013))**
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	992,000	910,000	985,000	777,000

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-26 6.8 - 8.8 12/07/01	RFI-83/84-44 1 - 3 03/10/03	RFI-83/84-44 7 - 9 03/10/03
VOC											
1,1,1,2-Tetrachloroethane	mg/kg	440	- -	2,200	530,000	33	120	- -	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.04 U	0.037 U	0.038 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.079 U	0.074 U	0.077 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	0.17 U	0.16 U	0.16 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.04 U	0.037 UJ	0.038 UJ
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.04 U	0.037 U	0.038 U
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.04 U	0.037 U	0.038 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	- -	4,200	8,800	7.5	11	- -	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.17 U	0.16 U	0.16 U
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000	36,000,000	8,000	25,000	- -	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.17 U	0.16 UJ	0.16 UJ
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.17 U	0.16 UJ	0.16 UJ
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.053 J	0.074 U	0.077 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.04 U	0.037 U	0.038 U
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.04 U	0.037 UJ	0.038 UJ
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000	36,000,000	4,800	19,000	- -	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.079 U	0.074 U	0.077 U
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.079 U	0.074 U	0.077 U
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.08 J	0.027 J	0.33 UJ
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	0.28 UJ	0.074 U	0.077 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	0.28 U	1.6 U	1.6 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	0.28 UJ	0.057 J	0.032 J
Acrylonitrile	mg/kg	8,300	0.1	74	58,000	35	17	- -	NA	NA	NA
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.04 U	0.037 U	0.038 U
Bromobenzene	mg/kg	760	- -	1,700	240,000	580	540	- -	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.079 U	0.074 U	0.077 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.079 U	0.074 U	0.077 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.17 U	0.16 UJ	0.16 UJ
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.17 U	0.16 U	0.16 U
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.04 U	0.037 U	0.038 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.04 U	0.037 U	0.038 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.17 U	0.16 UJ	0.16 UJ
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.04 U	0.037 U	0.038 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.17 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.04 U	0.037 UJ	0.038 UJ
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.04 U	0.037 U	0.038 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.16 U	0.16 U
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.079 U	0.074 U	0.077 U
Dibromomethane	mg/kg	2,000	- -	8,000	- -	- -	- -	- -	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.079 U	0.074 U	0.077 U
Diethyl ether	mg/kg	7,400	- -	360,000	350,000,000	52,000	100,000	- -	NA	NA	NA

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-26 6.8 - 8.8 12/07/01	RFI-83/84-44 1 - 3 03/10/03	RFI-83/84-44 7 - 9 03/10/03
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.04	0.037 U	0.038 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.03 J	0.16 U	0.16 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.12	0.037 J	0.077 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.1 J	0.16 UJ
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.28 U	0.16 UJ	0.16 UJ
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.15 J	0.049 J	0.16 U
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.17 U	0.028 J	0.031 J
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	- -	8,000	880,000	- -	- -	- -	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	- -	8,000	590,000	- -	- -	- -	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.051	0.037 U	0.038 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	- -	8,000	180,000	- -	- -	- -	NA	NA	NA
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.04 U	0.037 U	0.038 U
tert-Butylbenzene	mg/kg	10,000	- -	8,000	290,000	- -	- -	- -	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.04 U	0.037 UJ	0.038 UJ
Tetrahydrofuran	mg/kg	120,000	220	9,500	170,000,000	2,400	15,000	- -	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.062	0.074 U	0.077 U
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.04 U	0.037 U	0.038 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.04 U	0.037 U	0.038 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.04 U	0.071	0.038 U
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.079 U	0.074 U	0.077 U
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.04 U	0.074 U	0.077 U
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	0.051	0.037 U	0.038 U
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.97 U	0.136 J	0.19 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.97 U	0.18 U	0.19 U
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.97 U	0.18 U	0.19 U
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.97 U	0.18 U	0.19 U
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.97 U	0.18 U	0.19 U
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.97 U	0.18 U	0.19 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	3.8 U	0.71 U	0.76 U
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	3.8 U	0.71 U	0.76 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.97 U	0.18 U	0.19 U
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.97 U	0.18 U	0.19 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.97 U	0.18 U	0.19 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.97 U	0.415	0.19 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.97 U	0.18 U	0.19 U

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-26 6.8 - 8.8 12/07/01	RFI-83/84-44 1 - 3 03/10/03	RFI-83/84-44 7 - 9 03/10/03
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	3.8 U	0.71 U	0.76 U
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.97 U	0.18 U	0.19 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	1.9 UJ	0.36 U	0.39 UJ
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	3.8 UJ	0.71 U	0.76 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	3.8 U	0.71 U	0.76 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	3.8 U	0.71 U	0.76 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.97 U	0.18 U	0.19 U
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.97 U	0.18 U	0.19 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	3.8 U	0.71 U	0.76 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	3.8 U	0.71 U	0.76 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	3.8 U	0.71 U	0.76 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	3.8 U	0.71 U	0.76 U
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.97 U	1.46	0.06 J
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.97 U	0.18 U	0.19 U
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	0.97 U	0.18 U	0.19 U
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.97 U	2.79	0.132 J
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	0.97 U	0.18 U	0.19 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.97 UJ	0.18 U	0.19 UJ
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.97 UJ	7.69 D	0.349
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	0.97 UJ	6.43 JD	0.285
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.97 UJ	7.31 JD	0.279
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	0.97 UJ	1.87 J	0.19 U
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	0.97 UJ	5.84 JD	0.351
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.97 U	0.18 U	0.19 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.19 U	0.035 U	0.037 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.528 J	0.18 U	0.19 U
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	0.509 J	0.18 U	0.1 J
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	0.97 U	0.18 U	0.19 U
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	0.97 U	**2.97 (GSIP (2013))**	0.117 J
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	0.284 J	7.23 D	0.379
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	0.97 UJ	1.22 J	0.19 U
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.97 U	0.959	0.19 U
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.97 U	0.18 U	0.19 U
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.97 U	0.18 U	0.19 U
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.97 U	0.18 U	0.19 U
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.97 UJ	0.18 U	0.19 U
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	0.97 U	**14.6 D (GSIP (2013))**	0.757
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.584 J	1.75	0.0672 J
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.97 U	0.18 U	0.19 U
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.97 U	0.18 U	0.19 U
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.97 U	0.18 U	0.19 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.97 U	0.18 U	0.19 U
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.97 UJ	2.06	0.19 U
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.97 U	0.18 U	0.19 U
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.97 U	0.18 U	0.19 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.97 U	**0.908 (GSIP (2013))**	0.0585 J

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-26 6.8 - 8.8 12/07/01	RFI-83/84-44 1 - 3 03/10/03	RFI-83/84-44 7 - 9 03/10/03
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.38 U	0.071 U	0.076 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.97 U	0.18 U	0.19 U
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.97 U	0.18 U	0.19 U
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	3.8 U	0.71 U	0.76 U
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	1.09	**11.9 D (GSIP (2013))**	0.627
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.97 U	0.18 U	0.19 U
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	0.481 J	11.4 D	0.6
PCB											
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.037 U	0.04 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.037 U	0.04 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.037 U	0.04 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.037 U	0.04 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.037 U	0.04 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.059	0.037 U	0.04 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.037 U	0.04 U
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.059	0.037 U	0.04 U
Inorganic											
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	0.57 J	0.18	0.16 U
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	**7.3 J (GSIP (2013),SDBL (2013))**	**5.1 (GSIP (2013))**	4.6
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	48 J	34	23
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	0.8 J	0.24	0.25
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	0.6	0.37	0.11
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	**24 (SDBL (2013))**	**42 (SDBL (2013))**	12
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	**7.1 J (GSIP (2013),SDBL (2013))**	**2.7 (GSIP (2013))**	**4.6 (GSIP (2013))**
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	**2,200 (GSIP (2013),SDBL (2013))**	**47 J (SDBL (2013))**	**48 J (SDBL (2013))**
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	0.2 UJ	0.2 U	**21 (GSIP (2013),SDBL (2013))**
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	**460 (SDBL (2013))**	**480 (SDBL (2013))**	**28 (SDBL (2013))**
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	**280 (GSIP (2013))**	**290 (GSIP (2013))**	**120 (GSIP (2013))**
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	0.0343 J	0.0335 J	0.032 J
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	**23 J (SDBL (2013))**	**32 (SDBL (2013))**	12
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	0.12 J	0.17	0.13
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	**0.6 (GSIP (2013))**	0.15 UJ	0.16 UJ
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.13 J	0.059 J	0.076 J
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	21	8	16
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	**250 J (SDBL (2013))**	47 J	36 J
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	873,000	938,000	882,000

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-45 0.9 - 2.9 03/06/03	RFI-83/84-45 7.9 - 9.9 03/06/03	RFI-83/84-46 1.5 - 3.5 03/18/03
VOC											
1,1,1,2-Tetrachloroethane	mg/kg	440	- -	2,200	530,000	33	120	- -	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.035 U	0.037 U [0.037 U]	0.035 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.07 U	0.075 U [0.073 U]	0.071 UJ
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	0.15 U	0.16 U [0.16 U]	0.15 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.035 UJ	0.037 UJ [0.037 UJ]	0.035 U
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.035 U	0.037 U [0.037 U]	0.035 U
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.035 U	0.037 U [0.037 U]	0.035 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	- -	4,200	8,800	7.5	11	- -	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.15 U	0.16 U [0.16 U]	0.15 U
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000	36,000,000	8,000	25,000	- -	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.15 UJ	0.16 UJ [0.16 UJ]	0.15 U
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.15 UJ	0.16 UJ [0.16 UJ]	0.15 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.07 U	0.075 U [0.073 U]	0.071 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.035 U	0.037 U [0.037 U]	0.035 U
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.035 UJ	0.037 UJ [0.037 UJ]	0.035 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000	36,000,000	4,800	19,000	- -	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.07 U	0.075 U [0.073 U]	0.071 U
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.07 U	0.075 U [0.073 U]	0.071 U
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.3 UJ	0.32 UJ [0.31 UJ]	0.3 UJ
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	0.07 U	0.075 U [0.073 U]	0.071 UJ
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	1.5 U	1.6 U [1.6 U]	1.5 UJ
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	0.044 J	0.046 J [0.055 J]	0.3 UJ
Acrylonitrile	mg/kg	8,300	0.1	74	58,000	35	17	- -	NA	NA	NA
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.035 U	0.037 U [0.037 U]	0.035 U
Bromobenzene	mg/kg	760	- -	1,700	240,000	580	540	- -	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.07 U	0.075 U [0.073 U]	0.071 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.07 U	0.075 U [0.073 U]	0.071 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.15 UJ	0.16 UJ [0.16 UJ]	0.15 U
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.15 U	0.16 U [0.16 U]	0.15 UJ
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.035 U	0.037 U [0.037 U]	0.035 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.035 U	0.037 U [0.037 U]	0.035 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.15 UJ	0.16 UJ [0.16 UJ]	0.15 U
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.035 U	0.037 U [0.037 U]	0.035 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.15 U	0.16 U [0.16 U]	0.15 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.035 UJ	0.037 UJ [0.037 UJ]	0.76
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.035 U	0.037 U [0.037 U]	0.035 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.13 J	0.16 U [0.16 U]	0.032 J
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.07 U	0.075 U [0.073 U]	0.071 U
Dibromomethane	mg/kg	2,000	- -	8,000	- -	- -	- -	- -	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.07 U	0.075 U [0.073 U]	0.071 U
Diethyl ether	mg/kg	7,400	- -	360,000	350,000,000	52,000	100,000	- -	NA	NA	NA

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-45 0.9 - 2.9 03/06/03	RFI-83/84-45 7.9 - 9.9 03/06/03	RFI-83/84-46 1.5 - 3.5 03/18/03
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.035 U	0.037 U [0.037 U]	0.035 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.15 U	0.16 U [0.16 U]	0.15 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.11	0.075 U [0.073 U]	0.074
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.15 UJ	0.16 UJ [0.16 UJ]	0.1 J
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.15 UJ	0.16 UJ [0.16 UJ]	0.15 UJ
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.51	0.16 U [0.16 U]	0.097 J
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.037 J	0.04 J [0.034 J]	0.052 J
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	- -	8,000	880,000	- -	- -	- -	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	- -	8,000	590,000	- -	- -	- -	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.087	0.037 U [0.037 U]	0.038
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	- -	8,000	180,000	- -	- -	- -	NA	NA	NA
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.035 U	0.037 U [0.037 U]	0.035 U
tert-Butylbenzene	mg/kg	10,000	- -	8,000	290,000	- -	- -	- -	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.035 UJ	0.037 UJ [0.037 UJ]	0.035 U
Tetrahydrofuran	mg/kg	120,000	220	9,500	170,000,000	2,400	15,000	- -	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.054 J	0.075 U [0.073 U]	0.036 J
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.035 U	0.037 U [0.037 U]	0.26
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.035 U	0.037 U [0.037 U]	0.035 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.83	0.037 U [0.037 U]	0.035 U
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.07 U	0.075 U [0.073 U]	0.071 U
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.07 U	0.075 U [0.073 U]	0.071 U
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	0.087	0.037 U [0.037 U]	0.038
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.69 U	0.74 U [0.73 U]	0.68 U
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.69 U	0.74 U [0.73 U]	0.68 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.17 U	0.19 U [0.18 U]	0.17 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.0596 J	0.19 U [0.18 U]	0.0734 J
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-45 0.9 - 2.9 03/06/03	RFI-83/84-45 7.9 - 9.9 03/06/03	RFI-83/84-46 1.5 - 3.5 03/18/03
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.69 U	0.74 U [0.73 U]	0.68 U
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.35 UJ	0.38 UJ [0.37 UJ]	0.34 UJ
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	0.69 U	0.74 U [0.73 U]	0.68 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.69 U	0.74 U [0.73 U]	0.68 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	0.69 U	0.74 U [0.73 U]	0.68 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.69 U	0.74 U [0.73 U]	0.68 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.69 U	0.74 U [0.73 U]	0.68 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.69 U	0.74 U [0.73 U]	0.68 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.69 U	0.74 U [0.73 U]	0.68 U
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 UJ	0.19 UJ [0.18 UJ]	R
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.034 U	0.037 U [0.036 U]	0.033 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 UJ
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	0.17 U	0.19 U [0.18 U]	0.124 J
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 UJ
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.17 U	0.19 U [0.18 U]	0.0815 J

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-45 0.9 - 2.9 03/06/03	RFI-83/84-45 7.9 - 9.9 03/06/03	RFI-83/84-46 1.5 - 3.5 03/18/03
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.069 U	0.074 U [0.073 U]	0.068 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	0.69 U	0.74 U [0.73 U]	0.68 U
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	0.134 J	0.19 U [0.18 U]	0.226
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.17 U	0.19 U [0.18 U]	0.17 U
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	0.17 U	0.19 U [0.18 U]	0.122 J
PCB											
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.11 U	0.039 U [0.038 U]	0.035 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.11 U	0.039 U [0.038 U]	0.035 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.11 U	0.039 U [0.038 U]	0.035 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.11 U	0.039 U [0.038 U]	0.035 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.11 U	0.039 U [0.038 U]	0.035 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.11 U	0.039 U [0.038 U]	0.035 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.11 U	0.039 U [0.038 U]	0.035 U
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.11 U	0.039 U [0.038 U]	0.035 U
Inorganic											
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	0.03 J	0.17 U [0.03 J]	0.089 J
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	1.4	2.2 [2.9]	**5.6 (GSIP (2013))**
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	16	12 [14]	33
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	0.1	0.12 [0.14]	0.18
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	0.042	0.049 [0.067]	0.11 U
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	3.3	6.7 [7.7]	**20 (SDBL (2013))**
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	0.92	**2.3 (GSIP (2013)) [2.8 (GSIP (2013))]**	**4.1 (GSIP (2013))**
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	5 J	5.6 J [7.1 J]	20
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	0.2 U	0.2 U [0.2 U]	0.2 U
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	**75 (SDBL (2013))**	5.6 [9.9]	13 J
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	41	50 [64]	**310 J (GSIP (2013))**
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	0.072 U	0.078 U [0.00632 J]	0.068 U
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	3.1	6.4 [7.3]	16
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	0.11	0.05 J [0.11]	0.11
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	0.14 UJ	0.17 UJ [0.15 UJ]	0.046 J
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.034 J	0.053 J [0.062 J]	0.099 J
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	4.9	12 [14]	17
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	9.3 J	29 J [30 J]	27
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	978,000	902,000 [919,000]	989,000

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-46 7.5 - 9.5 03/18/03	RFI-83/84-46 9.5 - 11.5 03/18/03
VOC										
1,1,1,2-Tetrachloroethane	mg/kg	440	- -	2,200	530,000	33	120	- -	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.035 U	0.045 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.07 UJ	0.09 UJ
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	0.15 U	0.19 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.035 U	0.045 U
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.035 U	0.045 U
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.035 U	0.045 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
1,2,3-Trichloropropane	mg/kg	830	- -	4,200	8,800	7.5	11	- -	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.15 U	0.19 U
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000	36,000,000	8,000	25,000	- -	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.15 U	0.19 U
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.15 U	0.19 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.07 U	0.09 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.035 U	0.045 U
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.035 U	0.045 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000	36,000,000	4,800	19,000	- -	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.07 U	0.09 U
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.07 U	0.09 U
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.3 UJ	0.38 UJ
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	0.07 UJ	0.09 UJ
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	1.5 UJ	1.9 UJ
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	0.095 J	0.23 J
Acrylonitrile	mg/kg	8,300	0.1	74	58,000	35	17	- -	NA	NA
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.035 U	0.045 U
Bromobenzene	mg/kg	760	- -	1,700	240,000	580	540	- -	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.07 U	0.09 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.07 U	0.09 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.15 U	0.19 U
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.15 UJ	0.19 UJ
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.035 U	0.045 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.035 U	0.045 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.15 U	0.19 U
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.035 U	0.045 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.15 U	0.19 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.43	0.037 J
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.035 U	0.045 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.15 U	0.19 U
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.07 U	0.09 U
Dibromomethane	mg/kg	2,000	- -	8,000	- -	- -	- -	- -	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.07 U	0.09 U
Diethyl ether	mg/kg	7,400	- -	360,000	350,000,000	52,000	100,000	- -	NA	NA

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-46 7.5 - 9.5 03/18/03	RFI-83/84-46 9.5 - 11.5 03/18/03
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.035 U	0.045 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.15 U	0.19 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.053 J	0.09 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.63 J	0.062 J
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.15 UJ	0.19 UJ
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.054 J	0.19 UJ
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.15 U	0.047 J
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	NA	NA
n-Butylbenzene	mg/kg	10,000	- -	8,000	880,000	- -	- -	- -	NA	NA
n-Propylbenzene	mg/kg	10,000	- -	8,000	590,000	- -	- -	- -	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.027 J	0.045 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
sec-Butylbenzene	mg/kg	10,000	- -	8,000	180,000	- -	- -	- -	NA	NA
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.035 U	0.045 U
tert-Butylbenzene	mg/kg	10,000	- -	8,000	290,000	- -	- -	- -	NA	NA
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.035 U	0.045 U
Tetrahydrofuran	mg/kg	120,000	220	9,500	170,000,000	2,400	15,000	- -	NA	NA
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.026 J	0.09 U
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.15	0.045 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.035 U	0.045 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.035 U	0.045 U
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.07 U	0.09 U
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.07 U	0.09 U
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	0.027 J	0.045 U
SVOC										
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.0696 J	0.23 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.23 U
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.18 U	0.23 U
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.18 U	0.23 U
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.18 U	0.23 U
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.18 U	0.23 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.69 U	0.89 U
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.69 U	0.89 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.23 U
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.18 U	0.23 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.18 U	0.23 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.365	0.23 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.23 U

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-46 7.5 - 9.5 03/18/03	RFI-83/84-46 9.5 - 11.5 03/18/03
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.69 U	0.89 U
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.18 U	0.23 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.35 UJ	0.45 UJ
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	0.69 U	0.89 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.69 U	0.89 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	0.69 U	0.89 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.23 U
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.18 U	0.23 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.69 U	0.89 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.69 U	0.89 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.69 U	0.89 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.69 U	0.89 U
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.18 U	0.23 U
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.18 U	0.23 U
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	0.18 U	0.23 U
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.18 U	0.23 U
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	0.18 U	0.23 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	R	R
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.337	0.23 U
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	0.293 J	0.23 U
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.477 J	0.23 U
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	0.0927 J	0.23 U
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	0.282 J	0.23 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.23 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.034 U	0.044 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.18 U	0.23 U
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	0.18 U	0.23 U
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	0.18 U	0.23 U
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	0.18 U	0.23 U
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	0.614	0.23 U
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	0.18 UJ	0.23 UJ
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.287	0.23 U
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.18 U	0.23 U
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.18 U	0.23 U
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.18 U	0.23 U
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.18 U	0.23 U
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	1.21	0.23 U
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.18 U	0.23 U
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.18 U	0.23 U
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.18 U	0.23 U
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.18 U	0.23 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.18 U	0.23 U
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.0982 J	0.23 UJ
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.18 U	0.23 U
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.18 U	0.23 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.392	0.23 U

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-46 7.5 - 9.5 03/18/03	RFI-83/84-46 9.5 - 11.5 03/18/03
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.069 U	0.089 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.18 U	0.23 U
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.18 U	0.23 U
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	0.69 U	0.89 U
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	2.05	0.23 U
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.18 U	0.23 U
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	1.65	0.23 U
PCB										
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U	0.047 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U	0.047 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U	0.047 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U	0.047 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U	0.047 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U	0.047 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U	0.047 U
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.036 U	0.047 U
Inorganic										
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	0.27	0.011 J
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	**13 (GSIP (2013),SDBL (2013))**	**8.1 (GSIP (2013),SDBL (2013))**
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	49	**93 (SDBL (2013))**
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	0.26	0.41
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	0.41	0.29
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	**120 (SDBL (2013))**	**23 (SDBL (2013))**
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	**11 (GSIP (2013),SDBL (2013))**	**5.8 (GSIP (2013))**
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	**160 (GSIP (2013),SDBL (2013))**	12
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	0.2 U	0.3 U
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	**37 J (SDBL (2013))**	13 J
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	**930 J (GSIP (2013),SDBL (2013))**	**190 J (GSIP (2013))**
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	0.00634 J	**0.135 (GSIP (2013),SDBL (2013))**
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	**69 (SDBL (2013))**	15
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	0.14	**0.9 (GSIP (2013),SDBL (2013))**
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	**7.3 (GSIP (2013),SDBL (2013))**	**0.11 J (GSIP (2013))**
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.083 J	0.25
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	27	29
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	44	**94 (SDBL (2013))**
Miscellaneous										
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	966,000	749,000

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-47 1 - 3 04/07/03	RFI-83/84-47 8 - 10 04/07/03
VOC										
1,1,1,2-Tetrachloroethane	mg/kg	440	- -	2,200	530,000	33	120	- -	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.035 U [0.035 U]	0.041 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.07 U [0.07 U]	0.082 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	0.15 U [0.15 U]	0.17 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.035 U [0.035 U]	0.041 U
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.035 U [0.035 U]	0.041 U
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.035 U [0.035 U]	0.041 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
1,2,3-Trichloropropane	mg/kg	830	- -	4,200	8,800	7.5	11	- -	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.15 U [0.15 U]	0.17 U
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000	36,000,000	8,000	25,000	- -	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.15 U [0.15 U]	0.17 U
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.15 U [0.15 U]	0.17 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.07 U [0.07 U]	0.082 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.035 U [0.035 U]	0.041 U
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.035 U [0.035 U]	0.041 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000	36,000,000	4,800	19,000	- -	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.07 U [0.07 U]	0.082 U
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.07 U [0.07 U]	0.082 U
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.3 UJ [0.3 UJ]	0.35 UJ
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	0.07 U [0.07 U]	0.082 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	1.5 U [1.5 U]	1.7 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	0.3 U [0.3 U]	0.17 J
Acrylonitrile	mg/kg	8,300	0.1	74	58,000	35	17	- -	NA	NA
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.025 J [0.026 J]	0.043
Bromobenzene	mg/kg	760	- -	1,700	240,000	580	540	- -	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.07 U [0.07 U]	0.082 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.07 U [0.07 U]	0.082 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.15 U [0.15 U]	0.17 U
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.15 U [0.15 U]	0.17 U
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.035 U [0.035 U]	0.041 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.035 U [0.035 U]	0.041 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.15 U [0.15 U]	0.17 U
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.035 U [0.035 U]	0.041 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.15 U [0.15 U]	0.17 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	5 [5.2]	1.4
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.035 U [0.035 U]	0.041 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.066 J [0.064 J]	0.13 J
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.07 U [0.07 U]	0.082 U
Dibromomethane	mg/kg	2,000	- -	8,000	- -	- -	- -	- -	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.07 U [0.07 U]	0.082 U
Diethyl ether	mg/kg	7,400	- -	360,000	350,000,000	52,000	100,000	- -	NA	NA

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-47 1 - 3 04/07/03	RFI-83/84-47 8 - 10 04/07/03
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.025 J [0.027 J]	0.19
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.15 U [0.15 U]	0.25
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.094 [0.1]	0.55
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 [0.16]	0.19
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.15 U [0.15 U]	0.17 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.26 [0.27]	0.93
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.15 U [0.15 U]	0.17 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	NA	NA
n-Butylbenzene	mg/kg	10,000	- -	8,000	880,000	- -	- -	- -	NA	NA
n-Propylbenzene	mg/kg	10,000	- -	8,000	590,000	- -	- -	- -	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.057 [0.059]	0.31
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
sec-Butylbenzene	mg/kg	10,000	- -	8,000	180,000	- -	- -	- -	NA	NA
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.035 U [0.035 U]	0.041 U
tert-Butylbenzene	mg/kg	10,000	- -	8,000	290,000	- -	- -	- -	NA	NA
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.035 U [0.035 U]	0.041 U
Tetrahydrofuran	mg/kg	120,000	220	9,500	170,000,000	2,400	15,000	- -	NA	NA
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.062 J [0.064 J]	0.14
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.57 [0.6]	0.16
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.035 U [0.035 U]	0.041 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.13 [0.15]	0.031 J
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.07 U [0.07 U]	0.082 U
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.23 [0.24]	0.078 J
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	0.057 [0.059]	0.31
SVOC										
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.88 U [0.0666 J]	2 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.88 U [0.18 U]	2 U
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.88 U [0.18 U]	2 U
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.88 U [0.18 U]	2 U
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.88 U [0.18 U]	2 U
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.88 U [0.18 U]	2 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	3.5 U [0.69 U]	7.8 U
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	3.5 U [0.69 U]	7.8 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.88 U [0.18 U]	2 U
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.88 U [0.18 U]	2 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.88 U [0.18 U]	2 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.88 U [0.27]	**5.05 (GSIP (2013))**
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.88 U [0.18 U]	2 U

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-47 1 - 3 04/07/03	RFI-83/84-47 8 - 10 04/07/03
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	3.5 U [0.69 U]	7.8 U
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.88 U [0.18 U]	2 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	1.8 UJ [0.35 UJ]	4 UJ
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	3.5 U [0.69 UJ]	7.8 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	3.5 U [0.69 U]	7.8 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	3.5 U [0.69 U]	7.8 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.88 U [0.18 U]	2 U
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.88 U [0.18 U]	2 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	3.5 U [0.69 U]	7.8 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	3.5 U [0.69 U]	7.8 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	3.5 U [0.69 U]	7.8 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	3.5 U [0.69 U]	7.8 U
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.88 U [0.0673 J]	2 U
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.88 U [0.18 U]	2 U
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	0.88 U [0.18 U]	1.16 J
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.88 U [0.206]	2 U
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	0.88 U [0.18 U]	2 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.88 UJ [0.18 UJ]	2 UJ
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.88 U [0.366]	0.846 J
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	0.88 UJ [0.18 UJ]	2 UJ
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.88 UJ [0.18 UJ]	2 UJ
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	0.88 UJ [0.18 UJ]	2 UJ
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	0.88 UJ [0.18 UJ]	2 UJ
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.88 U [0.18 U]	2 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.17 U [0.034 U]	0.39 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.88 U [0.18 UJ]	2 U
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	0.88 U [0.18 UJ]	2 U
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	0.88 U [0.18 U]	2 U
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	0.88 UJ [0.18 UJ]	2 UJ
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	0.88 U [0.377 J]	1.19 J
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	0.88 UJ [0.18 UJ]	2 UJ
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.88 U [0.15 J]	2 U
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.88 U [0.18 U]	2 U
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.88 U [0.18 U]	2 U
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.88 UJ [0.18 U]	2 UJ
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.88 U [0.18 UJ]	2 U
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	0.531 J [0.543]	1.58 J
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.88 U [0.0989 J]	2 U
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.88 U [0.18 U]	2 U
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.88 U [0.18 U]	2 U
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.88 U [0.18 U]	2 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.88 U [0.18 U]	2 U
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.88 UJ [0.18 UJ]	2 UJ
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.88 U [0.18 U]	2 U
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.88 U [0.18 U]	2 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.88 U [0.324]	**1.83 J (GSIP (2013))**

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-47 1 - 3 04/07/03	RFI-83/84-47 8 - 10 04/07/03
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.35 U [0.069 U]	0.78 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.88 U [0.18 U]	2 U
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.88 U [0.18 U]	2 U
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	3.5 U [0.69 U]	7.8 U
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	0.67 J [0.876]	**2.46 (GSIP (2013))**
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.88 U [0.18 U]	2 U
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	0.655 J [1.14]	2.34
PCB										
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U [0.036 U]	0.041 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U [0.036 U]	0.041 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U [0.036 U]	0.041 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U [0.036 U]	0.041 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U [0.036 U]	0.041 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U [0.036 U]	0.041 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U [0.036 U]	0.041 U
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.036 U [0.036 U]	0.041 U
Inorganic										
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	0.09 J [0.15 J]	3.7
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	**3.4 [5.4 (GSIP (2013))]**	**11 (GSIP (2013),SDBL (2013))**
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	33 J [43 J]	**130 J (SDBL (2013))**
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	0.27 [0.51]	0.51
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	0.092 U [0.13 U]	**6.3 (GSIP (2013),SDBL (2013))**
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	**8.5 [20 (SDBL (2013))]**	**53 (SDBL (2013))**
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	**3.5 (GSIP (2013)) [4.5 (GSIP (2013))]**	**6.5 (GSIP (2013))**
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	9.7 [16]	**110 (SDBL (2013))**
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	0.2 U [0.2 U]	**0.29 J (GSIP (2013))**
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	14 [16]	**840 (SDBL (2013))**
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	**150 (GSIP (2013)) [110 (GSIP (2013))]**	**1,100 (GSIP (2013),SDBL (2013))**
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	0.00947 J [0.00798 J]	**0.134 (GSIP (2013),SDBL (2013))**
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	7.4 [14]	**36 (SDBL (2013))**
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	0.14 [0.11]	0.13
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	0.039 J [0.075 J]	**0.19 (GSIP (2013))**
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.094 J [0.12 J]	0.13 J
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	13 [17]	16
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	31 [34]	28
Miscellaneous										
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	969,000 [970,000]	854,000

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-48 1 - 3 04/07/03	RFI-83/84-48 7 - 9 04/07/03	RFI-83/84-50 3 - 5 04/10/03
VOC											
1,1,1,2-Tetrachloroethane	mg/kg	440	- -	2,200	530,000	33	120	- -	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.037 U	0.04 U	0.039 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.073 U	0.079 U	0.078 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	0.16 U	0.17 U	0.17 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.037 U	0.04 U	0.039 U
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.037 U	0.04 U	0.039 U
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.037 U	0.04 U	0.039 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	- -	4,200	8,800	7.5	11	- -	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.16 U	0.17 U	0.17 U
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000	36,000,000	8,000	25,000	- -	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.16 U	0.17 U	0.17 U
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.16 U	0.17 U	0.17 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.073 U	0.079 U	0.078 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.037 U	0.04 U	0.039 U
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.037 U	0.04 U	0.039 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000	36,000,000	4,800	19,000	- -	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.073 U	0.079 U	0.078 U
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.073 U	0.079 U	0.078 U
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.31 UJ	0.34 UJ	0.33 U
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	0.073 U	0.079 U	0.078 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	1.6 U	1.7 U	1.7 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	0.31 U	0.34 U	0.33 U
Acrylonitrile	mg/kg	8,300	0.1	74	58,000	35	17	- -	NA	NA	NA
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.037 U	0.04 U	0.039 U
Bromobenzene	mg/kg	760	- -	1,700	240,000	580	540	- -	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.073 U	0.079 U	0.078 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.073 U	0.079 U	0.078 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.16 U	0.17 U	0.17 UJ
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.16 U	0.17 U	0.17 U
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.037 U	0.04 U	0.039 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.037 U	0.04 U	0.039 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.16 U	0.17 U	0.17 U
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.037 U	0.04 U	0.039 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.16 U	0.17 U	0.17 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.037 U	0.04 U	0.039 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.037 U	0.04 U	0.039 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.058 J	0.17 U	0.17 U
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.073 U	0.079 U	0.078 U
Dibromomethane	mg/kg	2,000	- -	8,000	- -	- -	- -	- -	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.073 U	0.079 U	0.078 U
Diethyl ether	mg/kg	7,400	- -	360,000	350,000,000	52,000	100,000	- -	NA	NA	NA

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-48 1 - 3 04/07/03	RFI-83/84-48 7 - 9 04/07/03	RFI-83/84-50 3 - 5 04/10/03
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.037 U	0.04 U	0.039 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.16 U	0.17 U	0.17 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.076	0.079 U	0.078 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.21	0.17 U	0.17 U
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.16 U	0.17 U	0.17 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19	0.17 U	0.17 U
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.16 U	0.17 U	0.036 J
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	- -	8,000	880,000	- -	- -	- -	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	- -	8,000	590,000	- -	- -	- -	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.051	0.04 U	0.039 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	- -	8,000	180,000	- -	- -	- -	NA	NA	NA
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.037 U	0.04 U	0.039 U
tert-Butylbenzene	mg/kg	10,000	- -	8,000	290,000	- -	- -	- -	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.037 U	0.04 U	0.039 U
Tetrahydrofuran	mg/kg	120,000	220	9,500	170,000,000	2,400	15,000	- -	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.038 J	0.079 U	0.078 U
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.037 U	0.04 U	0.039 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.037 U	0.04 U	0.039 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.037 U	0.04 U	0.039 U
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.073 U	0.079 U	0.078 U
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.073 U	0.079 U	0.078 U
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	0.051	0.04 U	0.039 U
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.97 U	0.19 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.97 U	0.19 U
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.18 U	0.97 U	0.19 U
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.18 U	0.97 U	0.19 U
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.18 U	0.97 U	0.19 U
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.18 U	0.97 U	0.19 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	R	3.8 U	0.75 U
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.7 U	3.8 U	0.75 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.97 U	0.19 U
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.18 U	0.97 U	0.19 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.18 U	0.97 U	0.19 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.186	0.97 U	0.19 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.97 U	0.19 U

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-48 1 - 3 04/07/03	RFI-83/84-48 7 - 9 04/07/03	RFI-83/84-50 3 - 5 04/10/03
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	3.8 U	0.75 U
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.18 U	0.97 U	0.19 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.36 UJ	1.9 UJ	0.38 UJ
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	0.7 U	3.8 U	0.75 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	3.8 U	0.75 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	R	3.8 U	0.75 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.97 U	0.19 U
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.18 U	0.97 U	0.19 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	3.8 U	0.75 UJ
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	3.8 U	0.75 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	3.8 U	0.75 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	3.8 U	0.75 U
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.18 U	0.97 U	0.19 U
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.18 U	0.97 U	0.19 U
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	0.18 U	0.97 U	0.19 U
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.18 U	0.97 U	0.19 U
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	0.18 U	0.97 U	0.19 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 UJ	0.97 UJ	0.19 UJ
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.0964 J	0.97 U	0.19 U
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	0.0894 J	0.97 UJ	0.19 U
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.119 J	0.97 UJ	0.19 U
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	0.18 UJ	0.97 UJ	0.19 U
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	0.0786 J	0.97 UJ	0.19 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.97 U	0.19 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.034 U	0.19 U	0.037 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.18 U	0.97 U	0.19 U
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	0.18 U	0.97 U	0.19 U
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	0.18 U	0.97 U	0.19 U
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	0.18 UJ	0.97 UJ	0.19 U
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	0.144 J	0.97 U	0.19 U
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	0.18 UJ	0.97 UJ	0.19 UJ
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.18 U	0.97 U	0.19 U
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.18 U	0.97 U	0.19 U
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.18 U	0.97 U	0.19 U
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.18 U	0.97 UJ	0.19 U
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.18 UJ	0.97 U	0.19 U
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	0.17 J	0.97 U	0.19 U
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.18 U	0.97 U	0.19 U
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.18 U	0.97 U	0.19 U
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.18 U	0.97 U	0.19 U
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.18 U	0.97 U	0.19 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.18 U	0.97 U	0.19 U
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.18 UJ	0.97 UJ	0.19 UJ
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.18 U	0.97 U	0.19 U
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.18 U	0.97 U	0.19 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.13 J	0.97 U	0.19 U

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-48 1 - 3 04/07/03	RFI-83/84-48 7 - 9 04/07/03	RFI-83/84-50 3 - 5 04/10/03
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.07 U	0.38 U	0.075 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.18 U	0.97 U	0.19 U
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.18 U	0.97 U	0.19 U
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	0.7 U	3.8 U	0.75 U
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	0.282	0.97 U	0.19 U
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.18 U	0.97 U	0.19 U
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	0.164 J	0.97 U	0.19 U
PCB											
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.04 U	0.039 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.04 U	0.039 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.04 U	0.039 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.04 U	0.039 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.04 U	0.039 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.04 U	0.039 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.04 U	0.039 U
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.037 U	0.04 U	0.039 U
Inorganic											
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	0.04 J	0.074 J	0.018 J
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	3.7	**16 (GSIP (2013),SDBL (2013))**	2.7
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	38 J	63 J	20
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	0.28	0.55	0.21
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	0.077 U	0.2	0.11 U
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	15	12	8.6
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	**2.8 (GSIP (2013))**	**5.3 (GSIP (2013))**	**2.7 (GSIP (2013))**
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	9.4	23	8.9
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	0.2 U	0.2 U	0.2 U
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	6.3	13	7.7
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	**490 (GSIP (2013),SDBL (2013))**	**690 (GSIP (2013),SDBL (2013))**	89
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	0.07 U	0.0464 J	0.044 J
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	9.2	16	8.2
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	0.23 J	0.33 J	0.25 J
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	0.054 J	0.074 J	**0.23 (GSIP (2013))**
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.085 J	0.1 J	0.087 J
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	14	24	15
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	19	34	30
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	957,000	880,000	892,000

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-50 5 - 7 04/10/03	SB-83/84-27 9.5 - 10.5 09/11/13
VOC										
1,1,1,2-Tetrachloroethane	mg/kg	440	- -	2,200	530,000	33	120	- -	NA	0.4 UY
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.04 U [0.039 U]	0.2 UY
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.079 U [0.078 U]	0.2 UY
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	0.17 U [0.17 U]	NA
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.04 U [0.039 U]	0.2 UY
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.04 U [0.039 U]	0.2 UY
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.04 U [0.039 U]	0.2 UY
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	1.2 UY
1,2,3-Trichloropropane	mg/kg	830	- -	4,200	8,800	7.5	11	- -	NA	0.4 UY
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	9.5 Y
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.17 U [0.17 U]	1.2 UY
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000	36,000,000	8,000	25,000	- -	NA	**12.7 Y (GSIP (2013))**
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.17 U [0.17 U]	0.9 UY
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.17 U [0.17 U]	0.08 UMY
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.079 U [0.078 U]	0.4 UY
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.04 U [0.039 U]	0.2 UY
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.04 U [0.039 U]	0.2 UY
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000	36,000,000	4,800	19,000	- -	NA	**6.7 Y (GSIP (2013))**
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.079 U [0.078 U]	0.4 UY
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.079 U [0.078 U]	0.4 UY
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.34 U [0.33 U]	2.8 UY
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	0.079 U [0.078 U]	9 UY
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	NA	1.9 Y
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	1.7 U [1.7 U]	9 UY
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	0.34 U [0.33 U]	4 UY
Acrylonitrile	mg/kg	8,300	0.1	74	58,000	35	17	- -	NA	0.4 UY
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.04 U [0.039 U]	0.9 Y
Bromobenzene	mg/kg	760	- -	1,700	240,000	580	540	- -	NA	0.4 UY
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.4 UY
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.079 U [0.078 U]	0.4 UY
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.079 U [0.078 U]	0.4 UY
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.17 UJ [0.17 UJ]	0.8 UY
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.17 U [0.17 U]	0.9 UY
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.04 U [0.039 U]	0.2 UY
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.04 U [0.039 U]	0.2 UY
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.17 U [0.17 U]	0.9 UY
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.04 U [0.039 U]	0.2 UY
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.17 U [0.17 U]	0.9 UY
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.04 U [0.039 U]	0.2 UY
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.04 U [0.039 U]	0.2 UY
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U [0.17 U]	NA
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.079 U [0.078 U]	0.4 UY
Dibromomethane	mg/kg	2,000	- -	8,000	- -	- -	- -	- -	NA	0.9 UY
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.079 U [0.078 U]	0.9 UY
Diethyl ether	mg/kg	7,400	- -	360,000	350,000,000	52,000	100,000	- -	NA	0.8 UY

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-50 5 - 7 04/10/03	SB-83/84-27 9.5 - 10.5 09/11/13
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.04 U [0.039 U]	**1.5 Y (GSIP (2013))**
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	NA	1 UY
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.4 UY
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.17 U [0.17 U]	2.5 Y
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.079 U [0.078 U]	4.8 Y
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 UJ [0.17 UJ]	NA
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.17 U [0.17 U]	0.8 UY
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U [0.17 U]	NA
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.17 U [0.17 U]	0.4 UY
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	NA	**1.7 Y (GSIP (2013))**
n-Butylbenzene	mg/kg	10,000	- -	8,000	880,000	- -	- -	- -	NA	3.1 Y
n-Propylbenzene	mg/kg	10,000	- -	8,000	590,000	- -	- -	- -	NA	2.6 Y
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.04 U [0.039 U]	4.1 Y
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	2.9 Y
sec-Butylbenzene	mg/kg	10,000	- -	8,000	180,000	- -	- -	- -	NA	2.8 Y
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.04 U [0.039 U]	0.2 UY
tert-Butylbenzene	mg/kg	10,000	- -	8,000	290,000	- -	- -	- -	NA	0.2 UY
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.04 U [0.039 U]	0.2 UY
Tetrahydrofuran	mg/kg	120,000	220	9,500	170,000,000	2,400	15,000	- -	NA	4 UY
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.079 U [0.078 U]	2 Y
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.04 U [0.039 U]	0.2 UY
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.04 U [0.039 U]	0.2 UY
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.2 UY
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.04 U [0.039 U]	0.2 UY
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.079 U [0.078 U]	0.4 UY
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.079 U [0.078 U]	0.2 UY
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	0.04 U [0.039 U]	**4.1 (GSIP (2013))**
SVOC										
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.19 U]	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	0.463 UX
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	0.463 UX
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.463 UX
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	0.463 UX
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	0.463 UX
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.75 U [0.74 U]	0.83 U
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.75 U [0.74 U]	0.463 UX
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.19 U [0.19 U]	0.463 UX
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.19 U [0.19 U]	0.463 UX
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.19 U]	0.463 UX

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-50 5 - 7 04/10/03	SB-83/84-27 9.5 - 10.5 09/11/13
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.75 U [0.74 U]	0.83 U
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.38 UJ [0.38 UJ]	0.463 UX
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	0.75 U [0.74 U]	2 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.75 U [0.74 U]	0.83 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	0.75 U [0.74 U]	0.83 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.75 UJ [0.74 UJ]	0.463 UX
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.75 U [0.74 U]	0.463 UX
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.75 U [0.74 U]	0.83 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.75 U [0.74 U]	0.83 U
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.19 U [0.19 U]	0.463 UX
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.19 U [0.19 U]	0.463 UX
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	0.19 U [0.19 U]	NA
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.19 U [0.19 U]	0.463 UX
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	0.19 U [0.19 U]	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 UJ [0.19 UJ]	NA
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.037 U [0.037 U]	0.463 UX
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	0.19 U [0.19 U]	NA
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	0.19 U [0.19 U]	NA
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	0.19 U [0.19 U]	0.602 X
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	0.19 UJ [0.19 UJ]	0.463 UX
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.19 U [0.19 U]	0.463 UX
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	0.19 U [0.19 U]	0.463 UX
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.19 U [0.19 U]	0.463 UX
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.19 U [0.19 U]	0.463 UX
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.19 U [0.19 U]	0.463 UX
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.19 U [0.19 U]	0.463 UX
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.19 U [0.19 U]	0.463 UX
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.19 UJ [0.19 UJ]	0.463 UX
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.19 U [0.19 U]	0.463 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.19 U [0.19 U]	0.463 UX

Table I-2

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-50 5 - 7 04/10/03	SB-83/84-27 9.5 - 10.5 09/11/13
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.075 U [0.074 U]	0.463 UX
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.19 U [0.19 U]	0.926 UX
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	0.75 U [0.74 U]	0.463 UX
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	0.19 U [0.19 U]	0.611 X
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.19 U [0.19 U]	0.463 UX
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	0.19 U [0.19 U]	0.546 X
PCB										
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U [0.039 U]	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U [0.039 U]	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U [0.039 U]	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U [0.039 U]	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U [0.039 U]	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U [0.039 U]	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U [0.039 U]	0.33 U
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.039 U [0.039 U]	0.33 U
Inorganic										
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	0.16 U [0.16 U]	1
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	1.3 [2.1]	**7.25 (GSIP (2013),SDBL (2013))**
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	8.9 [20]	**291 (SDBL (2013))**
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	0.14 [0.2]	0.33
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	0.011 U [0.094 U]	0.2 U
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	4.7 [6.5]	9.38
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	**1.7 [2.5 (GSIP (2013))]**	1.89
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	8.6 [6.9]	**150 (GSIP (2013),SDBL (2013))**
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	0.2 U [0.2 U]	0.1 U
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	4.3 [6.1]	**207 (SDBL (2013))**
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	76 [78]	**219 (GSIP (2013))**
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	0.0228 J [0.019 J]	**0.203 (GSIP (2013),SDBL (2013))**
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	6.5 [6.6]	5.4
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	0.064 J [0.063 U]	0.5 U
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	**0.13 J (GSIP (2013)) [0.1 J]**	0.2 U
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.053 J [0.062 J]	0.5 U
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	9.7 [13]	14
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	22 [22]	14.8
Miscellaneous										
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	889,000 [901,000]	720,000

Table I-3

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	RFI-83/84-07 09/20/01	RFI-83/84-07 09/17/02	RFI-83/84-07 09/18/03	RFI-83/84-45 06/19/03
VOC					
1,1,1,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	0.13 U	NA	0.12 U	0.12 U
1,1,2,2-Tetrachloroethane	mg/kg	0.13 U	NA	0.12 UJ	0.12 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	3.6 J	NA	1.8	0.57 J
1,1,2-Trichloroethane	mg/kg	0.13 U	NA	0.12 U	0.12 U
1,1-Dichloroethane	mg/kg	0.13 U	NA	0.12 U	0.12 U
1,1-Dichloroethene	mg/kg	0.13 U	NA	0.12 U	0.12 U
1,2,3-Trichlorobenzene	mg/kg	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	0.13 U	NA	0.12 UJ	0.12 U
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	0.13 U	NA	0.12 UJ	0.12 U
1,2-Dibromoethane	mg/kg	0.13 U	NA	0.12 U	0.12 U
1,2-Dichlorobenzene	mg/kg	0.13 U	NA	0.12 UJ	0.12 U
1,2-Dichloroethane	mg/kg	0.13 U	NA	0.12 U	0.12 U
1,2-Dichloropropane	mg/kg	0.13 U	NA	0.12 U	0.12 U
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	0.13 U	NA	0.12 U	0.12 U
1,4-Dichlorobenzene	mg/kg	0.13 U	NA	0.12 UJ	0.12 U
2-Butanone	mg/kg	0.064 J	NA	0.62 UJ	0.62 U
2-Hexanone	mg/kg	0.63 U	NA	0.62 U	0.62 U
2-Methylnaphthalene	mg/kg	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	0.63 U	NA	0.62 U	0.62 U
Acetone	mg/kg	0.15 J	NA	0.2 J	0.62 U
Acrylonitrile	mg/kg	NA	NA	NA	NA
Benzene	mg/kg	0.13 U	NA	0.12 U	0.12 U
Bromobenzene	mg/kg	NA	NA	NA	NA
Bromochloromethane	mg/kg	NA	NA	NA	NA
Bromodichloromethane	mg/kg	0.13 U	NA	0.12 U	0.12 U
Bromoform	mg/kg	0.13 U	NA	0.12 U	0.12 U
Bromomethane	mg/kg	0.13 U	NA	0.12 UJ	0.12 U
Carbon Disulfide	mg/kg	0.13 U	NA	0.12 U	0.12 U
Carbon Tetrachloride	mg/kg	0.13 U	NA	0.12 U	0.12 U
Chlorobenzene	mg/kg	0.13 U	NA	0.12 U	0.12 U
Chloroethane	mg/kg	0.13 U	NA	0.12 U	0.12 U
Chloroform	mg/kg	0.13 U	NA	0.12 U	0.12 U
Chloromethane	mg/kg	0.13 UJ	NA	0.12 U	0.051 J
cis-1,2-Dichloroethene	mg/kg	0.076 J	NA	0.43	0.14
cis-1,3-Dichloropropene	mg/kg	0.13 U	NA	0.12 U	0.12 U
Cyclohexane	mg/kg	0.63 U	NA	0.62 U	0.62 U
Dibromochloromethane	mg/kg	0.13 U	NA	0.12 U	0.12 U
Dibromomethane	mg/kg	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	0.13 UJ	NA	0.12 U	0.12 U
Diethyl ether	mg/kg	NA	NA	NA	NA
Ethylbenzene	mg/kg	0.13 U	NA	0.12 U	0.063 J

Table I-3

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	RFI-83/84-07 09/20/01	RFI-83/84-07 09/17/02	RFI-83/84-07 09/18/03	RFI-83/84-45 06/19/03
Hexachloroethane	mg/kg	NA	NA	NA	NA
Iodomethane	mg/kg	NA	NA	NA	NA
Isopropylbenzene	mg/kg	0.13 U	NA	0.13 U	0.053 J
m&p-Xylene	mg/kg	0.063 J	NA	0.11 J	0.19 J
Methyl acetate	mg/kg	0.63 U	NA	0.62 U	0.62 U
Methyl tert-butyl ether	mg/kg	0.13 U	NA	0.12 U	0.12 U
Methylcyclohexane	mg/kg	0.63 U	NA	0.62 U	0.066 J
Methylene Chloride	mg/kg	0.63 UJ	NA	0.35 J	0.62 U
Naphthalene	mg/kg	NA	NA	NA	NA
n-Butylbenzene	mg/kg	NA	NA	NA	NA
n-Propylbenzene	mg/kg	NA	NA	NA	NA
o-Xylene	mg/kg	0.13 U	NA	0.056 J	0.091 J
p-Isopropyltoluene	mg/kg	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	NA	NA	NA	NA
Styrene	mg/kg	0.13 U	NA	0.12 U	0.12 U
tert-Butylbenzene	mg/kg	NA	NA	NA	NA
Tetrachloroethene	mg/kg	0.13 U	NA	0.12 U	0.12 U
Tetrahydrofuran	mg/kg	NA	NA	NA	NA
Toluene	mg/kg	0.13 U	NA	0.14	0.13
trans-1,2-Dichloroethene	mg/kg	0.13 U	NA	0.12 U	0.12 U
trans-1,3-Dichloropropene	mg/kg	0.13 U	NA	0.12 U	0.12 U
trans-1,4-Dichloro-2-butene	mg/kg	NA	NA	NA	NA
Trichloroethene	mg/kg	0.13 U	NA	0.12 U	0.12 U
Trichlorofluoromethane	mg/kg	0.13 U	NA	0.12 U	0.12 U
Vinyl Chloride	mg/kg	0.13 U	NA	0.12 J	0.12 U
Xylenes (total)	mg/kg	0.13 U	NA	0.056 J	0.091 J
SVOC					
1,1'-Biphenyl	mg/kg	49 U	NA	500 U	490 U
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	49 U	NA	500 U	490 U
2,4,5-Trichlorophenol	mg/kg	49 U	NA	500 U	490 U
2,4,6-Trichlorophenol	mg/kg	NA	NA	500 U	490 U
2,4-Dichlorophenol	mg/kg	NA	NA	500 U	490 U
2,4-Dimethylphenol	mg/kg	NA	NA	500 U	490 U
2,4-Dinitrophenol	mg/kg	200 U	NA	2,000 U	2,000 U
2,4-Dinitrotoluene	mg/kg	49 U	NA	500 U	490 U
2,6-Dinitrotoluene	mg/kg	49 U	NA	500 U	490 U
2-Chloronaphthalene	mg/kg	49 U	NA	500 U	490 U
2-Chlorophenol	mg/kg	49 U	NA	500 U	490 U
2-Methylnaphthalene	mg/kg	49 U	NA	500 U	490 U
2-Methylphenol	mg/kg	49 U	NA	500 U	490 U
2-Nitroaniline	mg/kg	200 U	NA	2,000 U	2,000 U
2-Nitrophenol	mg/kg	49 U	NA	500 U	490 U

Table I-3

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	RFI-83/84-07 09/20/01	RFI-83/84-07 09/17/02	RFI-83/84-07 09/18/03	RFI-83/84-45 06/19/03
3&4-Methylphenol	mg/kg	99 UJ	NA	990 UJ	980 UJ
3,3'-Dichlorobenzidine	mg/kg	200 UJ	NA	2,000 U	2,000 U
3-Nitroaniline	mg/kg	200 U	NA	2,000 U	2,000 U
4,6-Dinitro-2-methylphenol	mg/kg	200 U	NA	2,000 U	2,000 U
4-Bromophenyl-phenylether	mg/kg	49 U	NA	500 U	490 U
4-Chloro-3-Methylphenol	mg/kg	49 U	NA	500 U	490 U
4-Chloroaniline	mg/kg	200 U	NA	2,000 U	2,000 U
4-Chlorophenyl-phenylether	mg/kg	49 U	NA	500 U	490 U
4-Nitroaniline	mg/kg	200 U	NA	2,000 U	2,000 U
4-Nitrophenol	mg/kg	200 U	NA	2,000 U	2,000 U
Acenaphthene	mg/kg	49 U	NA	500 U	490 U
Acenaphthylene	mg/kg	49 U	NA	500 U	490 U
Acetophenone	mg/kg	49 U	NA	500 U	490 U
Anthracene	mg/kg	49 U	NA	500 U	490 U
Atrazine	mg/kg	49 U	NA	500 U	490 U
Benzaldehyde	mg/kg	49 U	NA	500 U	490 UJ
Benzo(a)anthracene	mg/kg	49 UJ	NA	500 U	490 U
Benzo(a)pyrene	mg/kg	49 UJ	NA	500 U	2,400 U
Benzo(b)fluoranthene	mg/kg	49 UJ	NA	500 U	2,400 U
Benzo(g,h,i)perylene	mg/kg	49 UJ	NA	500 U	2,400 U
Benzo(k)fluoranthene	mg/kg	49 UJ	NA	500 U	2,400 U
bis(2-Chloroethoxy)methane	mg/kg	49 U	NA	500 U	490 U
bis(2-Chloroethyl)ether	mg/kg	49 U	NA	500 U	490 U
bis(2-Ethylhexyl)phthalate	mg/kg	49 UJ	NA	500 U	490 U
Butylbenzylphthalate	mg/kg	78 J	NA	500 U	490 U
Caprolactam	mg/kg	49 U	NA	500 U	490 U
Carbazole	mg/kg	49 U	NA	500 U	490 U
Chrysene	mg/kg	49 UJ	NA	500 U	490 U
Dibenzo(a,h)anthracene	mg/kg	49 UJ	NA	500 UJ	2,400 U
Dibenzofuran	mg/kg	49 U	NA	500 U	490 U
Diethylphthalate	mg/kg	49 U	NA	500 U	490 U
Dimethylphthalate	mg/kg	49 U	NA	500 U	490 U
Di-n-Butylphthalate	mg/kg	49 U	NA	500 U	490 U
Di-n-Octylphthalate	mg/kg	49 UJ	NA	500 U	2,400 U
Fluoranthene	mg/kg	49 U	NA	500 U	490 U
Fluorene	mg/kg	49 U	NA	500 U	490 U
Hexachlorobenzene	mg/kg	49 U	NA	500 U	490 U
Hexachlorobutadiene	mg/kg	49 U	NA	500 U	490 U
Hexachlorocyclopentadiene	mg/kg	49 U	NA	500 U	490 U
Hexachloroethane	mg/kg	49 U	NA	500 U	490 U
Indeno(1,2,3-cd)pyrene	mg/kg	49 UJ	NA	500 U	2,400 U
Isophorone	mg/kg	49 U	NA	500 U	490 U
Methylphenols, Total	mg/kg	49 U	NA	500 U	490 U
Naphthalene	mg/kg	49 U	NA	500 U	490 U
Nitrobenzene	mg/kg	49 U	NA	500 U	490 U
N-Nitroso-di-n-propylamine	mg/kg	49 U	NA	500 U	490 U
N-Nitrosodiphenylamine	mg/kg	49 U	NA	500 U	490 U

Table I-3

Priority #10 - AOI 83/84-4 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	RFI-83/84-07 09/20/01	RFI-83/84-07 09/17/02	RFI-83/84-07 09/18/03	RFI-83/84-45 06/19/03
Pentachlorophenol	mg/kg	200 U	NA	2,000 U	2,000 U
Phenanthrene	mg/kg	49 U	NA	500 U	490 U
Phenol	mg/kg	49 U	NA	500 U	490 U
Pyrene	mg/kg	49 UJ	NA	500 U	490 U
PCB					
Aroclor-1016	mg/kg	0.74 U	NA	0.98 U	0.98 U
Aroclor-1221	mg/kg	0.74 U	NA	0.98 U	0.98 U
Aroclor-1232	mg/kg	0.74 U	NA	0.98 U	0.98 U
Aroclor-1242	mg/kg	0.74 U	NA	0.98 U	0.98 U
Aroclor-1248	mg/kg	0.74 U	NA	0.98 U	0.98 U
Aroclor-1254	mg/kg	0.74 U	NA	0.98 U	0.98 U
Aroclor-1260	mg/kg	0.74 U	NA	0.98 U	0.98 U
Aroclor-1262	mg/kg	NA	NA	NA	NA
Aroclor-1268	mg/kg	NA	NA	NA	NA
Total PCBs	mg/kg	0.74 U	NA	0.98 U	0.98 U
Inorganic					
Antimony	mg/kg	0.7 U	NA	1.9 U	0.9 U
Arsenic	mg/kg	1.8	NA	2.2	5 J
Barium	mg/kg	0.98 J	NA	0.98 J	1 J
Beryllium	mg/kg	0.35 U	NA	1.4 J	0.25 J
Cadmium	mg/kg	0.32	NA	0.22 J	0.11 J
Chromium Total	mg/kg	2.9	NA	2.6 J	3 J
Cobalt	mg/kg	0.7 U	NA	1.9 U	0.14 J
Copper	mg/kg	260	NA	230	13 J
Cyanide (total)	mg/kg	0.046 J	NA	0.2 UJ	0.2 U
Lead	mg/kg	79	NA	75	100 J
Manganese	mg/kg	0.56 J	NA	0.59 J	1
Mercury	mg/kg	0.02 U	NA	0.02 UJ	0.02 U
Nickel	mg/kg	4.5	NA	4.2 J	1.4
Selenium	mg/kg	0.35 U	NA	0.83 J	0.45 U
Silver	mg/kg	0.12 J	NA	1.9 U	0.095 J
Thallium	mg/kg	0.7 U	NA	1.9 U	0.9 U
Vanadium	mg/kg	1	NA	1.4	2.1
Zinc	mg/kg	8.2	NA	5.9 J	8.8
Miscellaneous					
Asbestos	mg/kg	NA	NA	NA	NA
Ignitability	deg f	NA	200 U	NA	NA
Interfacial Tension	dynes/cm	14	NA	19	18
Specific gravity	sg	0.88	NA	0.88	0.88
Viscosity	cp	42.5	NA	67.9	62.4

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	40-1R 04/03/03	40-2 09/20/01	40-2 12/17/02	40-2 03/24/03	40-4R 11/21/01	40-4R 06/24/02
VOC											
1,1,1,2-Tetrachloroethane	ug/L	{ID}	{ID}	96,000	1,100,000	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/L	{ID}	89	1,300,000 {(S)}	1,330,000	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	{ID}	78 {(X)}	77,000	2,970,000	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	32	170,000 {(S)}	170,000	1 U	1 U	1 U	1 U	1 U	1 UJ
1,1,2-Trichloroethane	ug/L	{NA}	330 {(X)}	110,000	4,420,000	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	1 U	1 U	1 U	1 UJ	1.2	0.75 J
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	ug/L	{NA}	{NA}	18,000	1,900,000	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	{NA}	99 {(X)}	300,000 {(S)}	300,000	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trimethylbenzene	ug/L	56,000 {(S)}	17	56,000 {(S)}	55,890	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	{NA}	{ID}	1,200 {(S)}	1,230	1 U	1 U	1 UJ	1 U	1 U	1 U
1,2-Dibromoethane	ug/L	{ID}	5.7 {(X)}	15,000	4,200,000	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	ug/L	{NA}	13	160,000 {(S)}	156,000	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/L	2,500,000	360 {(X)}	59,000	8,520,000	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/L	550,000	230 {(X)}	36,000	2,800,000	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/L	{ID}	45	61,000 {(S)}	61,150	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/L	{ID}	28	41,000	111,000	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	ug/L	{NA}	17	74,000 {(S)}	73,800	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	ug/L	{ID}	2,200	240,000,000 {(S)}	240,000,000	25 U	1 J	25 U	25 U	25 U	10 J
2-Hexanone	ug/L	{NA}	{ID}	8,700,000	16,000,000	50 U	50 U	50 U	50 U	50 U	50 U
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	ug/L	{ID}	{ID}	20,000,000 {(S)}	20,000,000	50 U	50 U	50 U	50 U	50 U	50 U
Acetone	ug/L	15,000,000	1,700	1,000,000,000 {(D,S)}	1,000,000,000	25 U	2.1 J	25 U	25 U	25 U	27 J
Acrylonitrile	ug/L	6,400,000	2 {(M); 1.2}	190,000	75,000,000	NA	NA	NA	NA	NA	NA
Benzene	ug/L	68,000	200 {(X)}	35,000	1,750,000	1 U	19	21	18	**1,900 D (GSI (2013))**	**2,600 D (GSI (2013))**
Bromobenzene	ug/L	{ID}	{NA}	390,000	413,000	NA	NA	NA	NA	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/L	{ID}	{ID}	37,000	6,740,000	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/L	{ID}	{ID}	3,100,000 {(S)}	3,100,000	1 U	1 U	1 UJ	1 U	1 U	1 U
Bromomethane	ug/L	{ID}	35	9,000	14,500,000	1 U	1 U	1 U	1 UJ	1 U	1 U
Carbon Disulfide	ug/L	13,000	{ID}	550,000	1,190,000	5 U	5 U	5 U	5 UJ	5 U	5 U
Carbon Tetrachloride	ug/L	{ID}	45 {(X)}	2,400	793,000	1 U	1 U	1 UJ	1 U	1 U	1 U
Chlorobenzene	ug/L	160,000	25	470,000 {(S)}	472,000	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/L	110,000	1,100 {(X)}	5,700,000 {(S)}	5,740,000	1 U	1 U	1 U	1 U	1.4	0.99 J
Chloroform	ug/L	{ID}	350	180,000	7,920,000	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	ug/L	36,000	{ID}	45,000	6,340,000	1 U	1 U	1 U	1 UJ	1 U	1 U
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	1 U	1 U	1 U	1 U	0.75 J	0.69 J
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	ug/L	- -	- -	- -	- -	5 U	67	38	28	250 D	77
Dibromochloromethane	ug/L	{ID}	{ID}	110,000	2,600,000	1 U	1 U	1 UJ	1 U	1 U	1 U
Dibromomethane	ug/L	{ID}	{NA}	{ID}	11,000,000	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/L	{ID}	{ID}	300,000 {(S)}	300,000	1 U	1 U	1 U	1 U	1 U	1 U

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	40-1R 04/03/03	40-2 09/20/01	40-2 12/17/02	40-2 03/24/03	40-4R 11/21/01	40-4R 06/24/02
Diethyl ether	ug/L	650,000	{ID}	61,000,000 {(S)}	61,000,000	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/L	43,000	18	170,000 {(S)}	169,000	1 U	**170 D (GSI (2013))**	**61 (GSI (2013))**	**92 D (GSI (2013))**	**800 D (GSI (2013))**	**680 D (GSI (2013))**
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	NA	NA	NA	NA	NA	NA
Iodomethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Isopropylbenzene	ug/L	29,000	28	56,000 {(S)}	56,000	5 U	**46 (GSI (2013))**	**74 (GSI (2013))**	25	**71 (GSI (2013))**	**36 (GSI (2013))**
m&p-Xylene	ug/L	- -	- -	- -	- -	2 U	2.7	1.6 J	6	2,200 D	1,800 D
Methyl acetate	ug/L	- -	- -	- -	- -	5 UJ	5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether	ug/L	{ID}	7,100 {(X)}	47,000,000 {(S)}	46,800,000	5 U	5 U	5 U	5 U	1.2 J	1.4 J
Methylcyclohexane	ug/L	- -	- -	- -	- -	1 U	15	12	6.5 J	180 D	64
Methylene Chloride	ug/L	{ID}	1,500 {(X)}	1,400,000	17,000,000	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
n-Propylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
o-Xylene	ug/L	- -	- -	- -	- -	1 U	0.52 J	1 U	1 U	230 D	84
p-Isopropyltoluene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Styrene	ug/L	140,000	80 {(X)}	310,000 {(S)}	310,000	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/L	{ID}	60 {(X)}	170,000	200,000	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	ug/L	60,000	11,000 {(X)}	16,000,000	1,000,000,000	NA	NA	NA	NA	NA	NA
Toluene	ug/L	61,000	270	530,000 {(S)}	526,000	1 U	1.2	1.5	1.4	68	58
trans-1,2-Dichloroethene	ug/L	230,000	1,500 {(X)}	200,000	6,300,000	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/L	{ID}	200 {(X)}	4,900	1,100,000	1.7	1 U	1 U	1 U	0.73 J	1 U
Trichlorofluoromethane	ug/L	{ID}	{NA}	1,100,000 {(S)}	1,100,000	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	ug/L	33,000	13 {(X)}	13,000	2,760,000	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	ug/L	70,000	41	190,000 {(S)}	186,000	1 U	0.52 J	1 U	1 U	**230 (GSI (2013))**	**84 (GSI (2013))**
SVOC											
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	5.6 U	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	5.6 U	NA
2,4,5-Trichlorophenol	ug/L	{ID}	{NA}	{NLV}	1,200,000	NA	5 U	NA	NA	5.6 U	NA
2,4,6-Trichlorophenol	ug/L	{ID}	5	{NLV}	800,000	NA	4 U	NA	NA	4.4 U	NA
2,4-Dichlorophenol	ug/L	{ID}	11	{NLV}	4,500,000	NA	10 U	NA	NA	11 U	NA
2,4-Dimethylphenol	ug/L	{ID}	380	{NLV}	7,870,000	NA	5 U	NA	NA	23.4	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	22 U	NA
2,4-Dinitrotoluene	ug/L	{ID}	{NA}	{NLV}	270,000	NA	5 U	NA	NA	5.6 U	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	5.6 U	NA
2-Chloronaphthalene	ug/L	{ID}	{NA}	{ID}	6,740	NA	5 U	NA	NA	5.6 U	NA
2-Chlorophenol	ug/L	{ID}	18	1,100,000	22,000,000	NA	5 U	NA	NA	5.6 U	NA
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	NA	5 U	NA	NA	**53.2 (GSI (2013))**	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	5.6 U	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	22 U	NA
2-Nitrophenol	ug/L	{ID}	{ID}	{NLV}	2,500,000	NA	5 U	NA	NA	5.6 U	NA
3&4-Methylphenol	ug/L	- -	- -	- -	- -	NA	10 UJ	NA	NA	11 UJ	NA

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	40-1R 04/03/03	40-2 09/20/01	40-2 12/17/02	40-2 03/24/03	40-4R 11/21/01	40-4R 06/24/02
3,3'-Dichlorobenzidine	ug/L	{ID}	0.3 {(M); 0.2}	{NLV}	3,110	NA	**20 U**	NA	NA	**22 U**	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	22 U	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	22 U	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	5.6 U	NA
4-Chloro-3-Methylphenol	ug/L	{ID}	7.4	{NLV}	3,900,000	NA	5 U	NA	NA	5.6 U	NA
4-Chloroaniline	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	22 U	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	R	NA	NA	5.6 U	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	22 U	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	22 U	NA
Acenaphthene	ug/L	{ID}	38	4,200 {(S)}	4,240	NA	5 U	NA	NA	5.6 U	NA
Acenaphthylene	ug/L	{ID}	{ID}	3,900 {(S)}	3,930	NA	5 U	NA	NA	5.6 U	NA
Acetophenone	ug/L	{ID}	{ID}	6,100,000 {(S)}	6,100,000	NA	5 U	NA	NA	5.6 U	NA
Anthracene	ug/L	{ID}	{ID}	43 {(S)}	43.4	NA	5 U	NA	NA	5.6 U	NA
Atrazine	ug/L	{ID}	7.3	{NLV}	70,000	NA	5 U	NA	NA	5.6 UJ	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	5.6 U	NA
Benzo(a)anthracene	ug/L	{ID}	{ID}	{NLV}	9.4	NA	1 U	NA	NA	1.1 U	NA
Benzo(a)pyrene	ug/L	{ID}	{ID}	{NLV}	1.62	NA	**2 U**	NA	NA	**2.2 U**	NA
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	{ID}	1.5	NA	**2 U**	NA	NA	**2.2 U**	NA
Benzo(g,h,i)perylene	ug/L	{ID}	{ID}	{NLV}	0.26	NA	**5 U**	NA	NA	**5.6 U**	NA
Benzo(k)fluoranthene	ug/L	{ID}	{NA}	{NLV}	0.8	NA	**5 U**	NA	NA	**5.6 U**	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	5.6 U	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	1 {(M); 0.79}	210,000	17,200,000	NA	1 U	NA	NA	**1.1 U**	NA
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	25	{NLV}	340	NA	1.32 J	NA	NA	5.6 U	NA
Butylbenzylphthalate	ug/L	{ID}	67 {(X)}	{NLV}	2,690	NA	5 U	NA	NA	5.6 U	NA
Caprolactam	ug/L	{NA}	{NA}	{NLV}	5,250,000,000	NA	10 U	NA	NA	11 U	NA
Carbazole	ug/L	{ID}	10 {(M); 4.0}	{NLV}	7,480	NA	10 U	NA	NA	**11 U**	NA
Chrysene	ug/L	{ID}	{ID}	{ID}	1.6	NA	**5 U**	NA	NA	**5.6 U**	NA
Dibenzo(a,h)anthracene	ug/L	{ID}	{ID}	{NLV}	2.49	NA	2 U	NA	NA	2.2 U	NA
Dibenzofuran	ug/L	{ID}	4	10,000 {(S)}	10,000	NA	4 U	NA	NA	**4.4 U**	NA
Diethylphthalate	ug/L	{NA}	110	{NLV}	1,080,000	NA	5 U	NA	NA	5.6 U	NA
Dimethylphthalate	ug/L	{NA}	{NA}	{NLV}	4,190,000	NA	5 U	NA	NA	5.6 U	NA
Di-n-Butylphthalate	ug/L	{NA}	9.7	{NLV}	11,200	NA	5 U	NA	NA	5.6 U	NA
Di-n-Octylphthalate	ug/L	{ID}	{ID}	{NLV}	3,000	NA	5 U	NA	NA	5.6 U	NA
Fluoranthene	ug/L	{ID}	1.6	210 {(S)}	206	NA	**2 U**	NA	NA	**2.2 U**	NA
Fluorene	ug/L	{ID}	12	2,000 {(S)}	1,980	NA	5 U	NA	NA	5.6 U	NA
Hexachlorobenzene	ug/L	{ID}	0.2 {(M); 0.0003}	3,000	6,200	NA	**1 U**	NA	NA	**1.1 U**	NA
Hexachlorobutadiene	ug/L	{ID}	0.053	3,200 {(S)}	3,230	NA	**5 U**	NA	NA	**5.6 U**	NA
Hexachlorocyclopentadiene	ug/L	{ID}	{ID}	420	1,800	NA	5 U	NA	NA	5.6 U	NA
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	NA	5 U	NA	NA	5.6 U	NA
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{ID}	{NLV}	0.022	NA	**2 U**	NA	NA	**2.2 U**	NA
Isophorone	ug/L	{ID}	1,300 {(X)}	{NLV}	12,000,000	NA	5 U	NA	NA	5.6 U	NA
Methylphenols, Total	ug/L	{NA}	30 {(M); 25}	{NLV}	28,000,000	NA	5 U	NA	NA	5.6 U	NA
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	NA	5 U	NA	NA	**89.4 (GSI (2013))**	NA
Nitrobenzene	ug/L	{NA}	180 {(X)}	550,000	2,090,000	NA	2 U	NA	NA	2.2 U	NA
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NA}	{NLV}	9,890,000	NA	5 U	NA	NA	5.6 U	NA

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	40-1R 04/03/03	40-2 09/20/01	40-2 12/17/02	40-2 03/24/03	40-4R 11/21/01	40-4R 06/24/02
N-Nitrosodiphenylamine	ug/L	{ID}	{NA}	{NLV}	35,100	NA	5 U	NA	NA	5.6 U	NA
Pentachlorophenol	ug/L	{ID}	2.8 {(G,X)}	{NLV}	1,850,000	NA	**20 U**	NA	NA	**22 U**	NA
Phenanthrene	ug/L	{ID}	2 {(M); 1.4}	1,000 {(S)}	1,000	NA	**5 U**	NA	NA	**5.6 U**	NA
Phenol	ug/L	{NA}	450	{NLV}	82,800,000	NA	5 U	NA	NA	24.6	NA
Pyrene	ug/L	{ID}	{ID}	140 {(S)}	135	NA	5 U	NA	NA	5.6 U	NA
PCB											
Aroclor-1016	ug/L	- -	- -	- -	- -	NA	0.11 U	NA	NA	0.1 U	NA
Aroclor-1221	ug/L	- -	- -	- -	- -	NA	0.11 U	NA	NA	0.1 U	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	NA	0.11 U	NA	NA	0.1 U	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	NA	0.11 U	NA	NA	0.1 U	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	NA	0.11 U	NA	NA	0.1 U	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	NA	0.11 U	NA	NA	0.1 U	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	NA	0.11 U	NA	NA	0.1 U	NA
Total PCBs	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	NA	0.11 U	NA	NA	0.1 U	NA
PCB-Dissolved											
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	0.11 U	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	0.11 U	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	0.11 U	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	0.11 U	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	0.11 U	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	0.11 U	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	0.11 U	NA
Total PCBs (Dissolved)	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	NA	0.1 U	NA	NA	0.11 U	NA
Inorganic											
Antimony	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	0.9 J	NA	NA	NA	1.2 UJ	0.45 J
Arsenic	ug/L	{ID}	10	{NLV}	{NA}	1 U	NA	NA	NA	**200 (GSI (2013))**	**150 (GSI (2013))**
Barium	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	53	NA	NA	NA	210 J	180
Beryllium	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	0.4 U	NA	NA	NA	0.4 UJ	0.4 U
Cadmium	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	0.09 J	NA	NA	NA	0.2 UJ	0.062 J
Chromium Total	ug/L	- -	170 {(G,X)}	- -	- -	6.4	NA	NA	NA	1.3 U	2.7
Cobalt	ug/L	{ID}	100	{NLV}	{NA}	0.48	NA	NA	NA	1.5 U	3.3
Copper	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	5.4	NA	NA	NA	3.8 U	9.2
Cyanide (total)	ug/L	{ID}	5.2	{NLV}	{NA}	**6.8 (GSI (2013))**	2.3 J	NA	NA	5 U	5 U
Lead	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	1.3	NA	NA	NA	2.9 U	6.4
Manganese	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	57 J	NA	NA	NA	620 J	1,000 J
Mercury	ug/L	{ID}	0.0013	56 {(S)}	56	**0.2 U**	**0.2 U**	NA	NA	**0.2 U**	**0.2 U**
Nickel	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	8.3	NA	NA	NA	5.6 U	7.3
Selenium	ug/L	{ID}	5	{NLV}	{NA}	1.6 U	NA	NA	NA	1.8 U	1.4 U
Silver	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	**0.4 UJ**	NA	NA	NA	**0.4 UJ**	**0.4 UJ**
Thallium	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	0.12 J	NA	NA	NA	0.2 UJ	0.2 U
Vanadium	ug/L	{ID}	27	{NLV}	{NA}	0.24 J	NA	NA	NA	2.1 U	4
Zinc	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	11	NA	NA	NA	26 U	22
Inorganic-Dissolved											
Antimony (Dissolved)	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	NA	1.2 U	NA	NA	6 U	3.3

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	40-1R 04/03/03	40-2 09/20/01	40-2 12/17/02	40-2 03/24/03	40-4R 11/21/01	40-4R 06/24/02
Arsenic (Dissolved)	ug/L	{ID}	10	{NLV}	{NA}	NA	6.1	NA	NA	**170 (GSI (2013))**	**140 (GSI (2013))**
Barium (Dissolved)	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	NA	190 J	NA	NA	160	140
Beryllium (Dissolved)	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	NA	0.4 U	NA	NA	2 U	0.4 U
Cadmium (Dissolved)	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	NA	0.2 U	NA	NA	1 U	0.2 U
Chromium Total (Dissolved)	ug/L	- -	170 {(G,X)}	- -	- -	NA	0.9	NA	NA	4.7 U	1.8
Cobalt (Dissolved)	ug/L	{ID}	100	{NLV}	{NA}	NA	0.74	NA	NA	1.2 U	2.3
Copper (Dissolved)	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	NA	2.5	NA	NA	6.8 U	3.1
Cyanide (dissolved)	ug/L	{ID}	5.2	{NLV}	{NA}	NA	4 J	NA	NA	5 U	5 U
Lead (Dissolved)	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	NA	0.4 U	NA	NA	2 U	2.4
Manganese (Dissolved)	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	NA	210	NA	NA	460 J	900 J
Mercury (Dissolved)	ug/L	- -	0.0013	- -	- -	NA	**0.2 U**	NA	NA	**0.2 U**	**0.2 U**
Nickel (Dissolved)	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	NA	8.9	NA	NA	4.2 U	4
Selenium (Dissolved)	ug/L	{ID}	5	{NLV}	{NA}	NA	4.7	NA	NA	**7 U**	1.4 U
Silver (Dissolved)	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	NA	**1.6 J (GSI (2013))**	NA	NA	**2 U**	**0.99 J (GSI (2013))**
Thallium (Dissolved)	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	NA	0.2 U	NA	NA	1 U	0.2 U
Vanadium (Dissolved)	ug/L	{ID}	27	{NLV}	{NA}	NA	0.8 U	NA	NA	4 U	1.4
Zinc (Dissolved)	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	NA	7	NA	NA	30 U	14
Field Parameters											
Conductivity Field	mS/cm	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
pH Field	s.u.	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Field Parameters-Filtered											
Dissolved Oxygen, Field	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	40-4R 03/24/03	40-5 09/18/01	40-6 09/18/01	40-6R 04/23/03	40-6R 10/05/04	40-301 09/17/01
VOC											
1,1,1,2-Tetrachloroethane	ug/L	{ID}	{ID}	96,000	1,100,000	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/L	{ID}	89	1,300,000 {(S)}	1,330,000	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	{ID}	78 {(X)}	77,000	2,970,000	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	32	170,000 {(S)}	170,000	1 U	1 U	1 U	1 U	30 U	1 U
1,1,2-Trichloroethane	ug/L	{NA}	330 {(X)}	110,000	4,420,000	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	ug/L	{NA}	{NA}	18,000	1,900,000	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	{NA}	99 {(X)}	300,000 {(S)}	300,000	5 U	5 U	5 U	5 U	2 U	5 U
1,2,4-Trimethylbenzene	ug/L	56,000 {(S)}	17	56,000 {(S)}	55,890	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	{NA}	{ID}	1,200 {(S)}	1,230	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	ug/L	{ID}	5.7 {(X)}	15,000	4,200,000	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	ug/L	{NA}	13	160,000 {(S)}	156,000	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/L	2,500,000	360 {(X)}	59,000	8,520,000	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/L	550,000	230 {(X)}	36,000	2,800,000	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/L	{ID}	45	61,000 {(S)}	61,150	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/L	{ID}	28	41,000	111,000	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	ug/L	{NA}	17	74,000 {(S)}	73,800	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	ug/L	{ID}	2,200	240,000,000 {(S)}	240,000,000	25 U	25 U	25 U	25 U	30 U	25 U
2-Hexanone	ug/L	{NA}	{ID}	8,700,000	16,000,000	50 U	50 U	50 U	50 U	50 U	50 U
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	ug/L	{ID}	{ID}	20,000,000 {(S)}	20,000,000	50 U	50 U	50 U	50 U	1 U	50 U
Acetone	ug/L	15,000,000	1,700	1,000,000,000 {(D,S)}	1,000,000,000	25 U	25 U	25 U	1.9 J	30 U	25 U
Acrylonitrile	ug/L	6,400,000	2 {(M); 1.2}	190,000	75,000,000	NA	NA	NA	NA	NA	NA
Benzene	ug/L	68,000	200 {(X)}	35,000	1,750,000	**1,500 D (GSI (2013))**	1 U	1 U	1 U	1 U	1 U
Bromobenzene	ug/L	{ID}	{NA}	390,000	413,000	NA	NA	NA	NA	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/L	{ID}	{ID}	37,000	6,740,000	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/L	{ID}	{ID}	3,100,000 {(S)}	3,100,000	1 U	1 U	1 U	1 U	1 UJ	1 U
Bromomethane	ug/L	{ID}	35	9,000	14,500,000	1 U	1 U	1 U	1 U	2 UJ	1 U
Carbon Disulfide	ug/L	13,000	{ID}	550,000	1,190,000	5 UJ	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	ug/L	{ID}	45 {(X)}	2,400	793,000	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/L	160,000	25	470,000 {(S)}	472,000	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/L	110,000	1,100 {(X)}	5,700,000 {(S)}	5,740,000	1 U	1 U	1 U	1 U	1 UJ	1 U
Chloroform	ug/L	{ID}	350	180,000	7,920,000	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	ug/L	36,000	{ID}	45,000	6,340,000	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	ug/L	- -	- -	- -	- -	96	5 U	5 U	5 U	1 U	5 U
Dibromochloromethane	ug/L	{ID}	{ID}	110,000	2,600,000	1 U	1 U	1 U	1 U	1 U	1 U
Dibromomethane	ug/L	{ID}	{NA}	{ID}	11,000,000	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/L	{ID}	{ID}	300,000 {(S)}	300,000	1 U	1 U	1 U	1 U	1 U	1 U

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	40-4R 03/24/03	40-5 09/18/01	40-6 09/18/01	40-6R 04/23/03	40-6R 10/05/04	40-301 09/17/01
Diethyl ether	ug/L	650,000	{ID}	61,000,000 {(S)}	61,000,000	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/L	43,000	18	170,000 {(S)}	169,000	**410 D (GSI (2013))**	1 U	1 U	1 U	1 U	1 U
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	NA	NA	NA	NA	NA	NA
Iodomethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Isopropylbenzene	ug/L	29,000	28	56,000 {(S)}	56,000	**37 (GSI (2013))**	5 U	5 U	5 U	1 U	5 U
m&p-Xylene	ug/L	- -	- -	- -	- -	1,000 D	2 U	2 U	2 U	1 U	0.59 J
Methyl acetate	ug/L	- -	- -	- -	- -	5 U	5 U	5 U	5 U	10 U	5 U
Methyl tert-butyl ether	ug/L	{ID}	7,100 {(X)}	47,000,000 {(S)}	46,800,000	5 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	ug/L	- -	- -	- -	- -	74 J	1 U	1 U	1 U	20 U	1 U
Methylene Chloride	ug/L	{ID}	1,500 {(X)}	1,400,000	17,000,000	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
n-Propylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
o-Xylene	ug/L	- -	- -	- -	- -	9.4	1 U	1 U	1 U	1 U	1 U
p-Isopropyltoluene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Styrene	ug/L	140,000	80 {(X)}	310,000 {(S)}	310,000	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/L	{ID}	60 {(X)}	170,000	200,000	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	ug/L	60,000	11,000 {(X)}	16,000,000	1,000,000,000	NA	NA	NA	NA	NA	NA
Toluene	ug/L	61,000	270	530,000 {(S)}	526,000	33	1 U	1 U	1 U	1 U	0.65 J
trans-1,2-Dichloroethene	ug/L	230,000	1,500 {(X)}	200,000	6,300,000	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/L	{ID}	200 {(X)}	4,900	1,100,000	1 U	1 U	1 U	1 U	0.3 J	1 U
Trichlorofluoromethane	ug/L	{ID}	{NA}	1,100,000 {(S)}	1,100,000	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	ug/L	33,000	13 {(X)}	13,000	2,760,000	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	ug/L	70,000	41	190,000 {(S)}	186,000	9.4	1 U	1 U	1 U	1 U	1 U
SVOC											
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	NA	5.9 U	5.3 U	NA	NA	5.3 U
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	NA	5.9 U	5.3 U	NA	NA	5.3 U
2,4,5-Trichlorophenol	ug/L	{ID}	{NA}	{NLV}	1,200,000	NA	5.9 U	5.3 U	NA	NA	5.3 U
2,4,6-Trichlorophenol	ug/L	{ID}	5	{NLV}	800,000	NA	4.7 U	4.2 U	NA	NA	4.2 U
2,4-Dichlorophenol	ug/L	{ID}	11	{NLV}	4,500,000	NA	**12 U**	11 U	NA	NA	11 U
2,4-Dimethylphenol	ug/L	{ID}	380	{NLV}	7,870,000	NA	5.9 U	5.3 U	NA	NA	5.3 U
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	NA	24 U	21 UJ	NA	NA	21 U
2,4-Dinitrotoluene	ug/L	{ID}	{NA}	{NLV}	270,000	NA	5.9 U	5.3 U	NA	NA	5.3 U
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	NA	5.9 U	5.3 U	NA	NA	5.3 U
2-Chloronaphthalene	ug/L	{ID}	{NA}	{ID}	6,740	NA	5.9 U	5.3 U	NA	NA	5.3 U
2-Chlorophenol	ug/L	{ID}	18	1,100,000	22,000,000	NA	5.9 U	5.3 U	NA	NA	5.3 U
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	NA	5.9 U	5.3 U	NA	NA	5.3 U
2-Methylphenol	ug/L	- -	- -	- -	- -	NA	5.9 U	5.3 U	NA	NA	5.3 U
2-Nitroaniline	ug/L	- -	- -	- -	- -	NA	24 U	21 U	NA	NA	21 U
2-Nitrophenol	ug/L	{ID}	{ID}	{NLV}	2,500,000	NA	5.9 U	5.3 U	NA	NA	5.3 U
3&4-Methylphenol	ug/L	- -	- -	- -	- -	NA	12 UJ	11 UJ	NA	NA	11 UJ

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	40-4R 03/24/03	40-5 09/18/01	40-6 09/18/01	40-6R 04/23/03	40-6R 10/05/04	40-301 09/17/01
3,3'-Dichlorobenzidine	ug/L	{ID}	0.3 {(M); 0.2}	{NLV}	3,110	NA	**24 U**	**21 U**	NA	NA	**21 U**
3-Nitroaniline	ug/L	- -	- -	- -	- -	NA	24 U	21 U	NA	NA	21 U
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	NA	24 U	21 U	NA	NA	21 U
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	5.9 U	5.3 U	NA	NA	5.3 U
4-Chloro-3-Methylphenol	ug/L	{ID}	7.4	{NLV}	3,900,000	NA	5.9 U	5.3 U	NA	NA	5.3 U
4-Chloroaniline	ug/L	- -	- -	- -	- -	NA	24 U	21 U	NA	NA	21 U
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	R	R	NA	NA	R
4-Nitroaniline	ug/L	- -	- -	- -	- -	NA	24 U	21 U	NA	NA	21 U
4-Nitrophenol	ug/L	- -	- -	- -	- -	NA	24 U	21 U	NA	NA	21 U
Acenaphthene	ug/L	{ID}	38	4,200 {(S)}	4,240	NA	5.9 U	5.3 U	NA	NA	5.3 U
Acenaphthylene	ug/L	{ID}	{ID}	3,900 {(S)}	3,930	NA	5.9 U	5.3 U	NA	NA	5.3 U
Acetophenone	ug/L	{ID}	{ID}	6,100,000 {(S)}	6,100,000	NA	5.9 U	5.3 U	NA	NA	5.3 U
Anthracene	ug/L	{ID}	{ID}	43 {(S)}	43.4	NA	5.9 U	5.3 U	NA	NA	5.3 U
Atrazine	ug/L	{ID}	7.3	{NLV}	70,000	NA	5.9 U	5.3 U	NA	NA	5.3 U
Benzaldehyde	ug/L	- -	- -	- -	- -	NA	5.9 U	5.3 U	NA	NA	5.3 U
Benzo(a)anthracene	ug/L	{ID}	{ID}	{NLV}	9.4	NA	1.2 U	1.1 U	NA	NA	1.1 U
Benzo(a)pyrene	ug/L	{ID}	{ID}	{NLV}	1.62	NA	**2.4 U**	**2.1 U**	NA	NA	**2.1 U**
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	{ID}	1.5	NA	**2.4 U**	**2.1 U**	NA	NA	**2.1 U**
Benzo(g,h,i)perylene	ug/L	{ID}	{ID}	{NLV}	0.26	NA	**5.9 U**	**5.3 U**	NA	NA	**5.3 U**
Benzo(k)fluoranthene	ug/L	{ID}	{NA}	{NLV}	0.8	NA	**5.9 U**	**5.3 U**	NA	NA	**5.3 U**
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	NA	5.9 U	5.3 U	NA	NA	5.3 U
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	1 {(M); 0.79}	210,000	17,200,000	NA	**1.2 U**	**1.1 U**	NA	NA	**1.1 U**
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	25	{NLV}	340	NA	5.9 U	5.3 U	NA	NA	5.3 U
Butylbenzylphthalate	ug/L	{ID}	67 {(X)}	{NLV}	2,690	NA	5.9 U	5.3 U	NA	NA	5.3 U
Caprolactam	ug/L	{NA}	{NA}	{NLV}	5,250,000,000	NA	12 U	11 U	NA	NA	11 UJ
Carbazole	ug/L	{ID}	10 {(M); 4.0}	{NLV}	7,480	NA	**12 U**	**11 U**	NA	NA	**11 U**
Chrysene	ug/L	{ID}	{ID}	{ID}	1.6	NA	**5.9 U**	**5.3 U**	NA	NA	**5.3 U**
Dibenzo(a,h)anthracene	ug/L	{ID}	{ID}	{NLV}	2.49	NA	2.4 U	2.1 U	NA	NA	2.1 U
Dibenzofuran	ug/L	{ID}	4	10,000 {(S)}	10,000	NA	**4.7 U**	**4.2 U**	NA	NA	**4.2 U**
Diethylphthalate	ug/L	{NA}	110	{NLV}	1,080,000	NA	5.9 U	5.3 U	NA	NA	5.3 U
Dimethylphthalate	ug/L	{NA}	{NA}	{NLV}	4,190,000	NA	5.9 U	5.3 U	NA	NA	5.3 U
Di-n-Butylphthalate	ug/L	{NA}	9.7	{NLV}	11,200	NA	5.9 U	5.3 U	NA	NA	5.3 U
Di-n-Octylphthalate	ug/L	{ID}	{ID}	{NLV}	3,000	NA	5.9 U	5.3 U	NA	NA	5.3 U
Fluoranthene	ug/L	{ID}	1.6	210 {(S)}	206	NA	**2.4 U**	**2.1 U**	NA	NA	**2.1 U**
Fluorene	ug/L	{ID}	12	2,000 {(S)}	1,980	NA	5.9 U	5.3 U	NA	NA	5.3 U
Hexachlorobenzene	ug/L	{ID}	0.2 {(M); 0.0003}	3,000	6,200	NA	**1.2 U**	**1.1 U**	NA	NA	**1.1 U**
Hexachlorobutadiene	ug/L	{ID}	0.053	3,200 {(S)}	3,230	NA	**5.9 U**	**5.3 U**	NA	NA	**5.3 U**
Hexachlorocyclopentadiene	ug/L	{ID}	{ID}	420	1,800	NA	5.9 U	5.3 U	NA	NA	5.3 U
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	NA	5.9 U	5.3 U	NA	NA	5.3 U
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{ID}	{NLV}	0.022	NA	**2.4 U**	**2.1 U**	NA	NA	**2.1 U**
Isophorone	ug/L	{ID}	1,300 {(X)}	{NLV}	12,000,000	NA	5.9 U	5.3 U	NA	NA	5.3 U
Methylphenols, Total	ug/L	{NA}	30 {(M); 25}	{NLV}	28,000,000	NA	5.9 U	5.3 U	NA	NA	5.3 U
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	NA	5.9 U	5.3 U	NA	NA	5.3 U
Nitrobenzene	ug/L	{NA}	180 {(X)}	550,000	2,090,000	NA	2.4 U	2.1 U	NA	NA	2.1 U
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NA}	{NLV}	9,890,000	NA	5.9 U	5.3 U	NA	NA	5.3 U

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	40-4R 03/24/03	40-5 09/18/01	40-6 09/18/01	40-6R 04/23/03	40-6R 10/05/04	40-301 09/17/01
N-Nitrosodiphenylamine	ug/L	{ID}	{NA}	{NLV}	35,100	NA	5.9 U	5.3 U	NA	NA	5.3 U
Pentachlorophenol	ug/L	{ID}	2.8 {(G,X)}	{NLV}	1,850,000	NA	**24 U**	**21 U**	NA	NA	**21 U**
Phenanthrene	ug/L	{ID}	2 {(M); 1.4}	1,000 {(S)}	1,000	NA	**5.9 U**	**5.3 U**	NA	NA	**5.3 U**
Phenol	ug/L	{NA}	450	{NLV}	82,800,000	NA	5.9 U	5.3 U	NA	NA	5.3 U
Pyrene	ug/L	{ID}	{ID}	140 {(S)}	135	NA	5.9 U	5.3 U	NA	NA	5.3 U
PCB											
Aroclor-1016	ug/L	- -	- -	- -	- -	NA	0.11 U	0.11 U	NA	NA	0.11 U
Aroclor-1221	ug/L	- -	- -	- -	- -	NA	0.11 U	0.11 U	NA	NA	0.11 U
Aroclor-1232	ug/L	- -	- -	- -	- -	NA	0.11 U	0.11 U	NA	NA	0.11 U
Aroclor-1242	ug/L	- -	- -	- -	- -	NA	0.11 U	0.11 U	NA	NA	0.11 U
Aroclor-1248	ug/L	- -	- -	- -	- -	NA	0.11 U	0.18	NA	NA	0.11 U
Aroclor-1254	ug/L	- -	- -	- -	- -	NA	0.11 U	0.11 U	NA	NA	0.11 U
Aroclor-1260	ug/L	- -	- -	- -	- -	NA	0.11 U	0.11 U	NA	NA	0.11 U
Total PCBs	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	NA	0.11 U	0.18	NA	NA	0.11 U
PCB-Dissolved											
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.11 U	0.11 U	NA	NA	0.11 U
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.11 U	0.11 U	NA	NA	0.11 U
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.11 U	0.11 U	NA	NA	0.11 U
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.11 U	0.11 U	NA	NA	0.11 U
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.11 U	0.11 U	NA	NA	0.11 U
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.11 U	0.11 U	NA	NA	0.11 U
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.11 U	0.11 U	NA	NA	0.11 U
Total PCBs (Dissolved)	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	NA	0.11 U	0.11 U	NA	NA	0.11 U
Inorganic											
Antimony	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	1.2 U	NA	NA	2.8	NA	NA
Arsenic	ug/L	{ID}	10	{NLV}	{NA}	**160 (GSI (2013))**	NA	NA	1 U	2 U	NA
Barium	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	180 J	NA	NA	35	NA	NA
Beryllium	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	0.4 U	NA	NA	0.4 U	NA	NA
Cadmium	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	0.05 J	NA	NA	0.078 J	NA	NA
Chromium Total	ug/L	- -	170 {(G,X)}	- -	- -	2.6	NA	NA	3.2	NA	NA
Cobalt	ug/L	{ID}	100	{NLV}	{NA}	2.6	NA	NA	0.48	NA	NA
Copper	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	3.8	NA	NA	3.4	NA	NA
Cyanide (total)	ug/L	{ID}	5.2	{NLV}	{NA}	5 U	1 J	**430 (GSI (2013))**	**24 (GSI (2013))**	**24 (GSI (2013))**	**13 (GSI (2013))**
Lead	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	4.9	NA	NA	2	3 U	NA
Manganese	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	510	NA	NA	270	NA	NA
Mercury	ug/L	{ID}	0.0013	56 {(S)}	56	**0.2 U**	**0.2 U**	**0.2 U**	**0.2 U**	NA	**0.2 U**
Nickel	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	7.2	NA	NA	4.8	NA	NA
Selenium	ug/L	{ID}	5	{NLV}	{NA}	1.6 U	NA	NA	1.6 U	NA	NA
Silver	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	**0.4 U**	NA	NA	**0.4 UJ**	NA	NA
Thallium	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	0.2 U	NA	NA	0.2 U	NA	NA
Vanadium	ug/L	{ID}	27	{NLV}	{NA}	3.7	NA	NA	0.29 J	NA	NA
Zinc	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	19 U	NA	NA	8.6	NA	NA
Inorganic-Dissolved											
Antimony (Dissolved)	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	NA	2.9	1.2 U	NA	NA	1.6

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	40-4R 03/24/03	40-5 09/18/01	40-6 09/18/01	40-6R 04/23/03	40-6R 10/05/04	40-301 09/17/01
Arsenic (Dissolved)	ug/L	{ID}	10	{NLV}	{NA}	NA	1 U	1 U	NA	NA	1.3
Barium (Dissolved)	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	NA	260	26	NA	NA	470
Beryllium (Dissolved)	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	NA	0.4 U	0.4 U	NA	NA	0.4 U
Cadmium (Dissolved)	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	NA	0.2 U	0.2 U	NA	NA	0.2 U
Chromium Total (Dissolved)	ug/L	- -	170 {(G,X)}	- -	- -	NA	9.7	0.6 U	NA	NA	1.3
Cobalt (Dissolved)	ug/L	{ID}	100	{NLV}	{NA}	NA	0.97	2.3	NA	NA	0.32
Copper (Dissolved)	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	NA	11	5.1	NA	NA	6.5
Cyanide (dissolved)	ug/L	{ID}	5.2	{NLV}	{NA}	NA	1.4 J	**440 J (GSI (2013))**	NA	NA	**14 (GSI (2013))**
Lead (Dissolved)	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	NA	0.4 U	0.4 U	NA	NA	0.4 U
Manganese (Dissolved)	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	NA	53	860	NA	NA	420
Mercury (Dissolved)	ug/L	- -	0.0013	- -	- -	NA	**0.2 U**	**0.2 U**	NA	NA	**0.2 U**
Nickel (Dissolved)	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	NA	37	7.4	NA	NA	3.5
Selenium (Dissolved)	ug/L	{ID}	5	{NLV}	{NA}	NA	1.9 J	1.4	NA	NA	1.4 U
Silver (Dissolved)	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	NA	**0.4 U**	**0.4 UJ**	NA	NA	**0.4 U**
Thallium (Dissolved)	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	NA	0.2 U	0.2 U	NA	NA	0.2 U
Vanadium (Dissolved)	ug/L	{ID}	27	{NLV}	{NA}	NA	0.8 U	0.8 U	NA	NA	0.8 U
Zinc (Dissolved)	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	NA	14	20	NA	NA	20
Field Parameters											
Conductivity Field	mS/cm	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
pH Field	s.u.	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Field Parameters-Filtered											
Dissolved Oxygen, Field	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA

Table. J-1

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Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	40-302 09/17/01	RFI-16-04 08/10/01	RFI-16-04 09/18/01	RFI-16-04 06/25/02	RFI-16-04R 10/31/07	RFI-16-04R 09/11/08
VOC											
1,1,1,2-Tetrachloroethane	ug/L	{ID}	{ID}	96,000	1,100,000	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/L	{ID}	89	1,300,000 {(S)}	1,330,000	1 U	1 U	NA	1 U [1 U]	NA	NA
1,1,2,2-Tetrachloroethane	ug/L	{ID}	78 {(X)}	77,000	2,970,000	1 U	1 U	NA	1 U [1 U]	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	32	170,000 {(S)}	170,000	1 U	1 U	NA	1 U [1 U]	NA	NA
1,1,2-Trichloroethane	ug/L	{NA}	330 {(X)}	110,000	4,420,000	1 U	1 U	NA	1 U [1 U]	NA	NA
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	1 U	1 U	NA	1 U [1 U]	NA	NA
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	1 U	1 U	NA	1 U [1 U]	NA	NA
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	ug/L	{NA}	{NA}	18,000	1,900,000	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	{NA}	99 {(X)}	300,000 {(S)}	300,000	5 U	5 U	NA	5 U [5 U]	NA	NA
1,2,4-Trimethylbenzene	ug/L	56,000 {(S)}	17	56,000 {(S)}	55,890	NA	1 U	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	{NA}	{ID}	1,200 {(S)}	1,230	1 U	1 U	NA	1 U [1 U]	NA	NA
1,2-Dibromoethane	ug/L	{ID}	5.7 {(X)}	15,000	4,200,000	1 U	1 U	NA	1 U [1 U]	NA	NA
1,2-Dichlorobenzene	ug/L	{NA}	13	160,000 {(S)}	156,000	1 U	3.6	NA	3.7 [3.8]	NA	NA
1,2-Dichloroethane	ug/L	2,500,000	360 {(X)}	59,000	8,520,000	1 U	1 U	NA	1 U [1 U]	NA	NA
1,2-Dichloropropane	ug/L	550,000	230 {(X)}	36,000	2,800,000	1 U	1 U	NA	1 U [1 U]	NA	NA
1,3,5-Trimethylbenzene	ug/L	{ID}	45	61,000 {(S)}	61,150	NA	1 U	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/L	{ID}	28	41,000	111,000	1 U	1 U	NA	1 U [1 U]	NA	NA
1,4-Dichlorobenzene	ug/L	{NA}	17	74,000 {(S)}	73,800	1 U	1 U	NA	1 U [1 U]	NA	NA
2-Butanone	ug/L	{ID}	2,200	240,000,000 {(S)}	240,000,000	25 U	25 U	NA	25 U [25 U]	NA	NA
2-Hexanone	ug/L	{NA}	{ID}	8,700,000	16,000,000	50 U	50 U	NA	50 U [50 U]	NA	NA
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	ug/L	{ID}	{ID}	20,000,000 {(S)}	20,000,000	50 U	50 U	NA	50 U [50 U]	NA	NA
Acetone	ug/L	15,000,000	1,700	1,000,000,000 {(D,S)}	1,000,000,000	25 U	25 UJ	NA	25 U [2.3 J]	NA	NA
Acrylonitrile	ug/L	6,400,000	2 {(M); 1.2}	190,000	75,000,000	NA	NA	NA	NA	NA	NA
Benzene	ug/L	68,000	200 {(X)}	35,000	1,750,000	1 U	2	NA	4.3 [4.5]	NA	NA
Bromobenzene	ug/L	{ID}	{NA}	390,000	413,000	NA	NA	NA	NA	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/L	{ID}	{ID}	37,000	6,740,000	1 U	1 U	NA	1 U [1 U]	NA	NA
Bromoform	ug/L	{ID}	{ID}	3,100,000 {(S)}	3,100,000	1 U	1 U	NA	1 U [1 U]	NA	NA
Bromomethane	ug/L	{ID}	35	9,000	14,500,000	1 U	1 UJ	NA	1 U [1 U]	NA	NA
Carbon Disulfide	ug/L	13,000	{ID}	550,000	1,190,000	5 U	5 U	NA	5 U [5 U]	NA	NA
Carbon Tetrachloride	ug/L	{ID}	45 {(X)}	2,400	793,000	1 U	1 U	NA	1 U [1 U]	NA	NA
Chlorobenzene	ug/L	160,000	25	470,000 {(S)}	472,000	1 U	9.1	NA	21 [20]	NA	NA
Chloroethane	ug/L	110,000	1,100 {(X)}	5,700,000 {(S)}	5,740,000	1 U	1 U	NA	1 U [1 U]	NA	NA
Chloroform	ug/L	{ID}	350	180,000	7,920,000	1 U	1 U	NA	1 U [1 U]	NA	NA
Chloromethane	ug/L	36,000	{ID}	45,000	6,340,000	1 U	1 U	NA	1 U [1 U]	NA	NA
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	1 U	1 U	NA	1 U [1 U]	NA	NA
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	NA	1 U [1 U]	NA	NA
Cyclohexane	ug/L	- -	- -	- -	- -	5 U	0.63 J	NA	5 U [5 U]	NA	NA
Dibromochloromethane	ug/L	{ID}	{ID}	110,000	2,600,000	1 U	1 U	NA	1 U [1 U]	NA	NA
Dibromomethane	ug/L	{ID}	{NA}	{ID}	11,000,000	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/L	{ID}	{ID}	300,000 {(S)}	300,000	1 U	1 U	NA	1 U [1 U]	NA	NA

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	40-302 09/17/01	RFI-16-04 08/10/01	RFI-16-04 09/18/01	RFI-16-04 06/25/02	RFI-16-04R 10/31/07	RFI-16-04R 09/11/08
Diethyl ether	ug/L	650,000	{ID}	61,000,000 {(S)}	61,000,000	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/L	43,000	18	170,000 {(S)}	169,000	1 U	1 U	NA	1 U [1 U]	NA	NA
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	NA	NA	NA	NA	NA	NA
Iodomethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Isopropylbenzene	ug/L	29,000	28	56,000 {(S)}	56,000	5 U	5 U	NA	5 U [5 U]	NA	NA
m&p-Xylene	ug/L	- -	- -	- -	- -	2 U	2 U	NA	2 U [2 U]	NA	NA
Methyl acetate	ug/L	- -	- -	- -	- -	5 U	5 U	NA	5 U [5 U]	NA	NA
Methyl tert-butyl ether	ug/L	{ID}	7,100 {(X)}	47,000,000 {(S)}	46,800,000	5 U	5 U	NA	5 U [5 U]	NA	NA
Methylcyclohexane	ug/L	- -	- -	- -	- -	1 U	0.95 J	NA	1 U [1 U]	NA	NA
Methylene Chloride	ug/L	{ID}	1,500 {(X)}	1,400,000	17,000,000	5 U	5 U	NA	5 U [5 U]	NA	NA
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
n-Propylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
o-Xylene	ug/L	- -	- -	- -	- -	1 U	1 U	NA	1 U [1 U]	NA	NA
p-Isopropyltoluene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Styrene	ug/L	140,000	80 {(X)}	310,000 {(S)}	310,000	1 U	1 U	NA	1 U [1 U]	NA	NA
tert-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/L	{ID}	60 {(X)}	170,000	200,000	1 U	1 U	NA	1 U [1 U]	NA	NA
Tetrahydrofuran	ug/L	60,000	11,000 {(X)}	16,000,000	1,000,000,000	NA	NA	NA	NA	NA	NA
Toluene	ug/L	61,000	270	530,000 {(S)}	526,000	1 U	1 U	NA	1 U [1 U]	NA	NA
trans-1,2-Dichloroethene	ug/L	230,000	1,500 {(X)}	200,000	6,300,000	1 U	1 U	NA	1 U [1 U]	NA	NA
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	NA	1 U [1 U]	NA	NA
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/L	{ID}	200 {(X)}	4,900	1,100,000	1 U	1 U	NA	1 U [1 U]	NA	NA
Trichlorofluoromethane	ug/L	{ID}	{NA}	1,100,000 {(S)}	1,100,000	1 U	1 U	NA	1 U [1 U]	NA	NA
Vinyl Chloride	ug/L	33,000	13 {(X)}	13,000	2,760,000	1 U	1 U	NA	1 U [1 U]	NA	NA
Xylenes (total)	ug/L	70,000	41	190,000 {(S)}	186,000	1 U	1 U	NA	1 U [1 U]	NA	NA
SVOC											
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	5.3 U	5.3 UJ	NA	5 U [5 U]	NA	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
2,4,5-Trichlorophenol	ug/L	{ID}	{NA}	{NLV}	1,200,000	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
2,4,6-Trichlorophenol	ug/L	{ID}	5	{NLV}	800,000	4.2 U	4.2 U	NA	4 U [4 U]	NA	NA
2,4-Dichlorophenol	ug/L	{ID}	11	{NLV}	4,500,000	11 U	11 U	NA	10 U [10 U]	NA	NA
2,4-Dimethylphenol	ug/L	{ID}	380	{NLV}	7,870,000	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	21 U	21 UJ	NA	20 U [20 U]	NA	NA
2,4-Dinitrotoluene	ug/L	{ID}	{NA}	{NLV}	270,000	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
2-Chloronaphthalene	ug/L	{ID}	{NA}	{ID}	6,740	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
2-Chlorophenol	ug/L	{ID}	18	1,100,000	22,000,000	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	21 U	21 U	NA	20 U [20 U]	NA	NA
2-Nitrophenol	ug/L	{ID}	{ID}	{NLV}	2,500,000	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
3&4-Methylphenol	ug/L	- -	- -	- -	- -	11 UJ	11 UJ	NA	10 UJ [10 UJ]	NA	NA

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	40-302 09/17/01	RFI-16-04 08/10/01	RFI-16-04 09/18/01	RFI-16-04 06/25/02	RFI-16-04R 10/31/07	RFI-16-04R 09/11/08
3,3'-Dichlorobenzidine	ug/L	{ID}	0.3 {(M); 0.2}	{NLV}	3,110	**21 U**	**21 U**	NA	**20 U [20 U]**	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	21 U	21 U	NA	20 U [20 U]	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	21 U	21 U	NA	20 U [20 U]	NA	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
4-Chloro-3-Methylphenol	ug/L	{ID}	7.4	{NLV}	3,900,000	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
4-Chloroaniline	ug/L	- -	- -	- -	- -	21 U	21 U	NA	20 U [20 U]	NA	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	R	5.3 U	NA	5 U [5 U]	NA	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	21 U	21 U	NA	20 U [20 U]	NA	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	21 U	21 UJ	NA	20 U [20 U]	NA	NA
Acenaphthene	ug/L	{ID}	38	4,200 {(S)}	4,240	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
Acenaphthylene	ug/L	{ID}	{ID}	3,900 {(S)}	3,930	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
Acetophenone	ug/L	{ID}	{ID}	6,100,000 {(S)}	6,100,000	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
Anthracene	ug/L	{ID}	{ID}	43 {(S)}	43.4	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
Atrazine	ug/L	{ID}	7.3	{NLV}	70,000	5.3 U	5.3 UJ	NA	5 U [5 U]	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	5.3 U	5.3 UJ	NA	5 UJ [5 UJ]	NA	NA
Benzo(a)anthracene	ug/L	{ID}	{ID}	{NLV}	9.4	1.1 U	1.1 U	NA	1 U [1 U]	NA	NA
Benzo(a)pyrene	ug/L	{ID}	{ID}	{NLV}	1.62	**2.1 U**	**2.1 U**	NA	**2 U [2 U]**	NA	NA
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	{ID}	1.5	**2.1 U**	**2.1 U**	NA	**2 U [2 U]**	NA	NA
Benzo(g,h,i)perylene	ug/L	{ID}	{ID}	{NLV}	0.26	**5.3 U**	**5.3 U**	NA	**5 U [5 U]**	NA	NA
Benzo(k)fluoranthene	ug/L	{ID}	{NA}	{NLV}	0.8	**5.3 U**	**5.3 U**	NA	**5 U [5 U]**	NA	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	1 {(M); 0.79}	210,000	17,200,000	**1.1 U**	**1.1 U**	NA	1 U [1 U]	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	25	{NLV}	340	5.3 U	4.46 J	NA	5 U [5 U]	NA	NA
Butylbenzylphthalate	ug/L	{ID}	67 {(X)}	{NLV}	2,690	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
Caprolactam	ug/L	{NA}	{NA}	{NLV}	5,250,000,000	11 U	11 U	NA	10 U [10 U]	NA	NA
Carbazole	ug/L	{ID}	10 {(M); 4.0}	{NLV}	7,480	**11 U**	**11 U**	NA	10 U [10 U]	NA	NA
Chrysene	ug/L	{ID}	{ID}	{ID}	1.6	**5.3 U**	**5.3 U**	NA	**5 U [5 U]**	NA	NA
Dibenzo(a,h)anthracene	ug/L	{ID}	{ID}	{NLV}	2.49	2.1 U	2.1 U	NA	2 U [2 U]	NA	NA
Dibenzofuran	ug/L	{ID}	4	10,000 {(S)}	10,000	**4.2 U**	**4.2 U**	NA	4 U [4 U]	NA	NA
Diethylphthalate	ug/L	{NA}	110	{NLV}	1,080,000	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
Dimethylphthalate	ug/L	{NA}	{NA}	{NLV}	4,190,000	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
Di-n-Butylphthalate	ug/L	{NA}	9.7	{NLV}	11,200	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
Di-n-Octylphthalate	ug/L	{ID}	{ID}	{NLV}	3,000	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
Fluoranthene	ug/L	{ID}	1.6	210 {(S)}	206	**2.1 U**	**2.1 U**	NA	**2 U [2 U]**	NA	NA
Fluorene	ug/L	{ID}	12	2,000 {(S)}	1,980	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
Hexachlorobenzene	ug/L	{ID}	0.2 {(M); 0.0003}	3,000	6,200	**1.1 U**	**1.1 U**	NA	**1 U [1 U]**	NA	NA
Hexachlorobutadiene	ug/L	{ID}	0.053	3,200 {(S)}	3,230	**5.3 U**	**5.3 U**	NA	**5 U [5 U]**	NA	NA
Hexachlorocyclopentadiene	ug/L	{ID}	{ID}	420	1,800	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{ID}	{NLV}	0.022	**2.1 U**	**2.1 U**	NA	**2 U [2 U]**	NA	NA
Isophorone	ug/L	{ID}	1,300 {(X)}	{NLV}	12,000,000	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
Methylphenols, Total	ug/L	{NA}	30 {(M); 25}	{NLV}	28,000,000	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
Nitrobenzene	ug/L	{NA}	180 {(X)}	550,000	2,090,000	2.1 U	2.1 U	NA	2 U [2 U]	NA	NA
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NA}	{NLV}	9,890,000	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	40-302 09/17/01	RFI-16-04 08/10/01	RFI-16-04 09/18/01	RFI-16-04 06/25/02	RFI-16-04R 10/31/07	RFI-16-04R 09/11/08
N-Nitrosodiphenylamine	ug/L	{ID}	{NA}	{NLV}	35,100	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
Pentachlorophenol	ug/L	{ID}	2.8 {(G,X)}	{NLV}	1,850,000	**21 U**	**21 U**	NA	**20 U [20 U]**	NA	NA
Phenanthrene	ug/L	{ID}	2 {(M); 1.4}	1,000 {(S)}	1,000	**5.3 U**	**5.3 U**	NA	**5 U [5 U]**	NA	NA
Phenol	ug/L	{NA}	450	{NLV}	82,800,000	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
Pyrene	ug/L	{ID}	{ID}	140 {(S)}	135	5.3 U	5.3 U	NA	5 U [5 U]	NA	NA
PCB											
Aroclor-1016	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	0.1 U [0.1 U]	0.1 U [0.1 U]	0.1 U
Aroclor-1221	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	0.1 U [0.1 U]	0.1 U [0.1 U]	0.1 U
Aroclor-1232	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	0.1 U [0.1 U]	0.1 U [0.1 U]	0.1 U
Aroclor-1242	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	0.1 U [0.1 U]	0.1 U [0.1 U]	0.1 U
Aroclor-1248	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	0.1 U [0.1 U]	0.1 U [0.1 U]	0.1 U
Aroclor-1254	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	0.1 U [0.1 U]	0.1 U [0.1 U]	0.1 U
Aroclor-1260	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	0.1 U [0.1 U]	0.1 U [0.1 U]	0.1 U
Total PCBs	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	0.11 U	0.1 U	NA	0.1 U [0.1 U]	0.1 U [0.1 U]	0.1 U
PCB-Dissolved											
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	0.1 U [0.1 U]	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	0.1 U [0.1 U]	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	0.1 U [0.1 U]	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	0.1 U [0.1 U]	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	0.1 U [0.1 U]	NA	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	0.1 U [0.1 U]	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	0.1 U	NA	0.1 U [0.1 U]	NA	NA
Total PCBs (Dissolved)	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	0.11 U	0.1 U	NA	0.1 U [0.1 U]	NA	NA
Inorganic											
Antimony	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	NA	NA	NA	1.2 U [1.2 U]	NA	NA
Arsenic	ug/L	{ID}	10	{NLV}	{NA}	NA	NA	NA	0.97 J [0.69 J]	NA	NA
Barium	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	NA	NA	NA	400 [380]	NA	NA
Beryllium	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	NA	NA	NA	0.4 U [0.4 U]	NA	NA
Cadmium	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	NA	NA	NA	0.2 U [0.2 U]	NA	NA
Chromium Total	ug/L	- -	170 {(G,X)}	- -	- -	NA	NA	NA	1.1 [1.1]	NA	NA
Cobalt	ug/L	{ID}	100	{NLV}	{NA}	NA	NA	NA	0.46 [0.43]	NA	NA
Copper	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	NA	NA	NA	1.5 [1.4]	NA	NA
Cyanide (total)	ug/L	{ID}	5.2	{NLV}	{NA}	1.1 J	NA	**12 (GSI (2013))**	5 U [5 U]	NA	NA
Lead	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	NA	NA	NA	0.49 [0.43]	NA	NA
Manganese	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	NA	NA	NA	560 J [540]	NA	NA
Mercury	ug/L	{ID}	0.0013	56 {(S)}	56	**0.2 U**	NA	**0.2 U**	**0.2 U [0.2 U]**	NA	NA
Nickel	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	NA	NA	NA	6.2 [5.9]	NA	NA
Selenium	ug/L	{ID}	5	{NLV}	{NA}	NA	NA	NA	1.4 U [1.4 U]	NA	NA
Silver	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	NA	NA	NA	**0.4 UJ [0.4 UJ]**	NA	NA
Thallium	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	NA	NA	NA	0.2 U [0.2 U]	NA	NA
Vanadium	ug/L	{ID}	27	{NLV}	{NA}	NA	NA	NA	0.8 U [0.8 U]	NA	NA
Zinc	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	NA	NA	NA	12 [10]	NA	NA
Inorganic-Dissolved											
Antimony (Dissolved)	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	1.2 U	1.2 U	NA	NA	NA	NA

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	40-302 09/17/01	RFI-16-04 08/10/01	RFI-16-04 09/18/01	RFI-16-04 06/25/02	RFI-16-04R 10/31/07	RFI-16-04R 09/11/08
Arsenic (Dissolved)	ug/L	{ID}	10	{NLV}	{NA}	3.2	2.6	NA	NA	NA	NA
Barium (Dissolved)	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	66	150	NA	NA	NA	NA
Beryllium (Dissolved)	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	0.4 U	0.4 U	NA	NA	NA	NA
Cadmium (Dissolved)	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	0.2 U	0.2 U	NA	NA	NA	NA
Chromium Total (Dissolved)	ug/L	- -	170 {(G,X)}	- -	- -	0.6 U	4.2	NA	NA	NA	NA
Cobalt (Dissolved)	ug/L	{ID}	100	{NLV}	{NA}	0.2 U	0.38	NA	NA	NA	NA
Copper (Dissolved)	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	**27 (GSI (2013))**	**26 J (GSI (2013))**	NA	NA	NA	NA
Cyanide (dissolved)	ug/L	{ID}	5.2	{NLV}	{NA}	1.8 J	5 U	NA	NA	NA	NA
Lead (Dissolved)	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	0.4 U	0.4 U	NA	NA	NA	NA
Manganese (Dissolved)	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	130	160	NA	NA	NA	NA
Mercury (Dissolved)	ug/L	- -	0.0013	- -	- -	**0.2 U**	**0.2 U**	NA	NA	NA	NA
Nickel (Dissolved)	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	1.8	3.3	NA	NA	NA	NA
Selenium (Dissolved)	ug/L	{ID}	5	{NLV}	{NA}	1.4 U	**11 (GSI (2013))**	NA	NA	NA	NA
Silver (Dissolved)	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	**0.4 U**	**0.4 UJ**	NA	NA	NA	NA
Thallium (Dissolved)	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	0.2 U	0.2 U	NA	NA	NA	NA
Vanadium (Dissolved)	ug/L	{ID}	27	{NLV}	{NA}	0.8 U	3.2	NA	NA	NA	NA
Zinc (Dissolved)	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	7.1	13	NA	NA	NA	NA
Field Parameters											
Conductivity Field	mS/cm	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.812
ORP, Field	millivolts	- -	- -	- -	- -	NA	NA	NA	NA	NA	147 -
pH Field	s.u.	- -	- -	- -	- -	NA	NA	NA	NA	NA	6.9
Temperature, Ambient	deg f	- -	- -	- -	- -	NA	NA	NA	NA	NA	55
Temperature, Field	Deg C	- -	- -	- -	- -	NA	NA	NA	NA	NA	18.74
Turbidity (Field)	NTU	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.75
Field Parameters-Filtered											
Dissolved Oxygen, Field	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	2,580

Table. J-1

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Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-16-07 08/10/01	RFI-16-07 09/18/01	RFI-16-09 08/10/01	RFI-16-09 09/18/01	RFI-16-11 08/13/01	RFI-16-11 09/18/01
VOC											
1,1,1,2-Tetrachloroethane	ug/L	{ID}	{ID}	96,000	1,100,000	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/L	{ID}	89	1,300,000 {(S)}	1,330,000	1 U [1 U]	NA	1 U	NA	1 U	NA
1,1,2,2-Tetrachloroethane	ug/L	{ID}	78 {(X)}	77,000	2,970,000	1 U [1 U]	NA	1 U	NA	1 U	NA
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	32	170,000 {(S)}	170,000	1 U [1 U]	NA	1 U	NA	1 U	NA
1,1,2-Trichloroethane	ug/L	{NA}	330 {(X)}	110,000	4,420,000	1 U [1 U]	NA	1 U	NA	1 U	NA
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	1 U [1 U]	NA	1 U	NA	1 U	NA
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	1 U [1 U]	NA	1 U	NA	1 U	NA
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	ug/L	{NA}	{NA}	18,000	1,900,000	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	{NA}	99 {(X)}	300,000 {(S)}	300,000	5 U [5 U]	NA	5 U	NA	5 U	NA
1,2,4-Trimethylbenzene	ug/L	56,000 {(S)}	17	56,000 {(S)}	55,890	1 U [1 U]	NA	1 U	NA	1 U	NA
1,2-Dibromo-3-chloropropane	ug/L	{NA}	{ID}	1,200 {(S)}	1,230	1 U [1 U]	NA	1 U	NA	1 U	NA
1,2-Dibromoethane	ug/L	{ID}	5.7 {(X)}	15,000	4,200,000	1 U [1 U]	NA	1 U	NA	1 U	NA
1,2-Dichlorobenzene	ug/L	{NA}	13	160,000 {(S)}	156,000	1 U [1 U]	NA	1 U	NA	1 U	NA
1,2-Dichloroethane	ug/L	2,500,000	360 {(X)}	59,000	8,520,000	1 U [1 U]	NA	1 U	NA	1 U	NA
1,2-Dichloropropane	ug/L	550,000	230 {(X)}	36,000	2,800,000	1 U [1 U]	NA	1 U	NA	1 U	NA
1,3,5-Trimethylbenzene	ug/L	{ID}	45	61,000 {(S)}	61,150	1 U [1 U]	NA	1 U	NA	1 U	NA
1,3-Dichlorobenzene	ug/L	{ID}	28	41,000	111,000	1 U [1 U]	NA	1 U	NA	1 U	NA
1,4-Dichlorobenzene	ug/L	{NA}	17	74,000 {(S)}	73,800	1 U [1 U]	NA	1 U	NA	1 U	NA
2-Butanone	ug/L	{ID}	2,200	240,000,000 {(S)}	240,000,000	25 U [25 U]	NA	25 U	NA	31 U	NA
2-Hexanone	ug/L	{NA}	{ID}	8,700,000	16,000,000	50 U [50 U]	NA	50 U	NA	50 U	NA
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	ug/L	{ID}	{ID}	20,000,000 {(S)}	20,000,000	50 U [50 U]	NA	50 U	NA	50 U	NA
Acetone	ug/L	15,000,000	1,700	1,000,000,000 {(D,S)}	1,000,000,000	25 UJ [25 UJ]	NA	25 UJ	NA	6.9 J	NA
Acrylonitrile	ug/L	6,400,000	2 {(M); 1.2}	190,000	75,000,000	NA	NA	NA	NA	NA	NA
Benzene	ug/L	68,000	200 {(X)}	35,000	1,750,000	1 U [1 U]	NA	1 U	NA	18	NA
Bromobenzene	ug/L	{ID}	{NA}	390,000	413,000	NA	NA	NA	NA	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/L	{ID}	{ID}	37,000	6,740,000	1 U [1 U]	NA	1 U	NA	1 U	NA
Bromoform	ug/L	{ID}	{ID}	3,100,000 {(S)}	3,100,000	1 U [1 U]	NA	1 U	NA	1 U	NA
Bromomethane	ug/L	{ID}	35	9,000	14,500,000	1 UJ [1 UJ]	NA	1 UJ	NA	1 UJ	NA
Carbon Disulfide	ug/L	13,000	{ID}	550,000	1,190,000	5 U [5 U]	NA	5 U	NA	5 U	NA
Carbon Tetrachloride	ug/L	{ID}	45 {(X)}	2,400	793,000	1 U [1 U]	NA	1 U	NA	1 U	NA
Chlorobenzene	ug/L	160,000	25	470,000 {(S)}	472,000	1 U [1 U]	NA	1 U	NA	1 U	NA
Chloroethane	ug/L	110,000	1,100 {(X)}	5,700,000 {(S)}	5,740,000	1 U [1 U]	NA	1 U	NA	1 U	NA
Chloroform	ug/L	{ID}	350	180,000	7,920,000	1 U [1 U]	NA	1 U	NA	1 U	NA
Chloromethane	ug/L	36,000	{ID}	45,000	6,340,000	1 U [1 U]	NA	0.53 J	NA	1 U	NA
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	1 U [1 U]	NA	1 U	NA	1 U	NA
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U [1 U]	NA	1 U	NA	1 U	NA
Cyclohexane	ug/L	- -	- -	- -	- -	5 U [5 U]	NA	5 U	NA	3.8 J	NA
Dibromochloromethane	ug/L	{ID}	{ID}	110,000	2,600,000	1 U [1 U]	NA	1 U	NA	1 U	NA
Dibromomethane	ug/L	{ID}	{NA}	{ID}	11,000,000	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/L	{ID}	{ID}	300,000 {(S)}	300,000	1 U [1 U]	NA	1 U	NA	1 U	NA

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-16-07 08/10/01	RFI-16-07 09/18/01	RFI-16-09 08/10/01	RFI-16-09 09/18/01	RFI-16-11 08/13/01	RFI-16-11 09/18/01
Diethyl ether	ug/L	650,000	{ID}	61,000,000 {(S)}	61,000,000	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/L	43,000	18	170,000 {(S)}	169,000	1 U [1 U]	NA	1 U	NA	1 U	NA
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	NA	NA	NA	NA	NA	NA
Iodomethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Isopropylbenzene	ug/L	29,000	28	56,000 {(S)}	56,000	5 U [5 U]	NA	5 U	NA	0.54 J	NA
m&p-Xylene	ug/L	- -	- -	- -	- -	2 U [2 U]	NA	2 U	NA	2 U	NA
Methyl acetate	ug/L	- -	- -	- -	- -	5 U [5 U]	NA	5 U	NA	5 U	NA
Methyl tert-butyl ether	ug/L	{ID}	7,100 {(X)}	47,000,000 {(S)}	46,800,000	5 U [5 U]	NA	5 U	NA	5 U	NA
Methylcyclohexane	ug/L	- -	- -	- -	- -	1 U [1 U]	NA	1 U	NA	0.73 J	NA
Methylene Chloride	ug/L	{ID}	1,500 {(X)}	1,400,000	17,000,000	5 U [5 U]	NA	5 U	NA	5 U	NA
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
n-Propylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
o-Xylene	ug/L	- -	- -	- -	- -	1 U [1 U]	NA	1 U	NA	1 U	NA
p-Isopropyltoluene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Styrene	ug/L	140,000	80 {(X)}	310,000 {(S)}	310,000	1 U [1 U]	NA	1 U	NA	1 U	NA
tert-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/L	{ID}	60 {(X)}	170,000	200,000	1 U [1 U]	NA	1 U	NA	1 UJ	NA
Tetrahydrofuran	ug/L	60,000	11,000 {(X)}	16,000,000	1,000,000,000	NA	NA	NA	NA	NA	NA
Toluene	ug/L	61,000	270	530,000 {(S)}	526,000	1 U [1 U]	NA	1 U	NA	1 U	NA
trans-1,2-Dichloroethene	ug/L	230,000	1,500 {(X)}	200,000	6,300,000	1 U [1 U]	NA	1 U	NA	1 U	NA
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U [1 U]	NA	1 U	NA	1 U	NA
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/L	{ID}	200 {(X)}	4,900	1,100,000	1 U [1 U]	NA	1 U	NA	1 U	NA
Trichlorofluoromethane	ug/L	{ID}	{NA}	1,100,000 {(S)}	1,100,000	1 U [1 U]	NA	1 U	NA	1 U	NA
Vinyl Chloride	ug/L	33,000	13 {(X)}	13,000	2,760,000	1 U [1 U]	NA	1 U	NA	1 U	NA
Xylenes (total)	ug/L	70,000	41	190,000 {(S)}	186,000	1 U [1 U]	NA	1 U	NA	1 U	NA
SVOC											
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	5.3 UJ [5.3 UJ]	NA	5.3 UJ	NA	5 U	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
2,4,5-Trichlorophenol	ug/L	{ID}	{NA}	{NLV}	1,200,000	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
2,4,6-Trichlorophenol	ug/L	{ID}	5	{NLV}	800,000	4.2 U [4.2 U]	NA	4.2 U	NA	4 U	NA
2,4-Dichlorophenol	ug/L	{ID}	11	{NLV}	4,500,000	11 U [11 U]	NA	11 U	NA	10 U	NA
2,4-Dimethylphenol	ug/L	{ID}	380	{NLV}	7,870,000	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	21 UJ [21 UJ]	NA	21 UJ	NA	20 U	NA
2,4-Dinitrotoluene	ug/L	{ID}	{NA}	{NLV}	270,000	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
2-Chloronaphthalene	ug/L	{ID}	{NA}	{ID}	6,740	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
2-Chlorophenol	ug/L	{ID}	18	1,100,000	22,000,000	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	21 U [21 U]	NA	21 U	NA	20 U	NA
2-Nitrophenol	ug/L	{ID}	{ID}	{NLV}	2,500,000	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
3&4-Methylphenol	ug/L	- -	- -	- -	- -	11 UJ [11 UJ]	NA	11 UJ	NA	10 UJ	NA

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-16-07 08/10/01	RFI-16-07 09/18/01	RFI-16-09 08/10/01	RFI-16-09 09/18/01	RFI-16-11 08/13/01	RFI-16-11 09/18/01
3,3'-Dichlorobenzidine	ug/L	{ID}	0.3 {(M); 0.2}	{NLV}	3,110	**21 U [21 U]**	NA	**21 U**	NA	**20 U**	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	21 U [21 U]	NA	21 U	NA	20 UJ	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	21 U [21 U]	NA	21 U	NA	20 U	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
4-Chloro-3-Methylphenol	ug/L	{ID}	7.4	{NLV}	3,900,000	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
4-Chloroaniline	ug/L	- -	- -	- -	- -	21 U [21 U]	NA	21 U	NA	20 UJ	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	21 U [21 U]	NA	21 U	NA	20 UJ	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	21 UJ [21 UJ]	NA	21 UJ	NA	20 U	NA
Acenaphthene	ug/L	{ID}	38	4,200 {(S)}	4,240	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
Acenaphthylene	ug/L	{ID}	{ID}	3,900 {(S)}	3,930	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
Acetophenone	ug/L	{ID}	{ID}	6,100,000 {(S)}	6,100,000	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
Anthracene	ug/L	{ID}	{ID}	43 {(S)}	43.4	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
Atrazine	ug/L	{ID}	7.3	{NLV}	70,000	5.3 UJ [5.3 UJ]	NA	5.3 UJ	NA	5 UJ	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	5.3 UJ [5.3 UJ]	NA	5.3 UJ	NA	5 UJ	NA
Benzo(a)anthracene	ug/L	{ID}	{ID}	{NLV}	9.4	1.1 U [1.1 U]	NA	1.1 U	NA	1 U	NA
Benzo(a)pyrene	ug/L	{ID}	{ID}	{NLV}	1.62	**2.1 U [2.1 U]**	NA	**2.1 U**	NA	**2 U**	NA
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	{ID}	1.5	**2.1 U [2.1 U]**	NA	**2.1 U**	NA	**2 U**	NA
Benzo(g,h,i)perylene	ug/L	{ID}	{ID}	{NLV}	0.26	**5.3 U [5.3 U]**	NA	**5.3 U**	NA	**5 U**	NA
Benzo(k)fluoranthene	ug/L	{ID}	{NA}	{NLV}	0.8	**5.3 U [5.3 U]**	NA	**5.3 U**	NA	**5 U**	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	1 {(M); 0.79}	210,000	17,200,000	**1.1 U [1.1 U]**	NA	**1.1 U**	NA	1 U	NA
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	25	{NLV}	340	5.3 U [1.12 J]	NA	5.3 U	NA	5 U	NA
Butylbenzylphthalate	ug/L	{ID}	67 {(X)}	{NLV}	2,690	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
Caprolactam	ug/L	{NA}	{NA}	{NLV}	5,250,000,000	11 U [11 U]	NA	11 U	NA	10 U	NA
Carbazole	ug/L	{ID}	10 {(M); 4.0}	{NLV}	7,480	**11 U [11 U]**	NA	**11 U**	NA	10 UJ	NA
Chrysene	ug/L	{ID}	{ID}	{ID}	1.6	**5.3 U [5.3 U]**	NA	**5.3 U**	NA	**5 U**	NA
Dibenzo(a,h)anthracene	ug/L	{ID}	{ID}	{NLV}	2.49	2.1 U [2.1 U]	NA	2.1 U	NA	2 U	NA
Dibenzofuran	ug/L	{ID}	4	10,000 {(S)}	10,000	**4.2 U [4.2 U]**	NA	**4.2 U**	NA	4 U	NA
Diethylphthalate	ug/L	{NA}	110	{NLV}	1,080,000	1.28 J [5.3 U]	NA	5.3 U	NA	5 U	NA
Dimethylphthalate	ug/L	{NA}	{NA}	{NLV}	4,190,000	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
Di-n-Butylphthalate	ug/L	{NA}	9.7	{NLV}	11,200	5.3 U [2.13 J]	NA	5.3 U	NA	5 U	NA
Di-n-Octylphthalate	ug/L	{ID}	{ID}	{NLV}	3,000	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
Fluoranthene	ug/L	{ID}	1.6	210 {(S)}	206	**2.1 U [2.1 U]**	NA	**2.1 U**	NA	**2 U**	NA
Fluorene	ug/L	{ID}	12	2,000 {(S)}	1,980	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
Hexachlorobenzene	ug/L	{ID}	0.2 {(M); 0.0003}	3,000	6,200	**1.1 U [1.1 U]**	NA	**1.1 U**	NA	**1 U**	NA
Hexachlorobutadiene	ug/L	{ID}	0.053	3,200 {(S)}	3,230	**5.3 U [5.3 U]**	NA	**5.3 U**	NA	**5 U**	NA
Hexachlorocyclopentadiene	ug/L	{ID}	{ID}	420	1,800	5.3 U [5.3 U]	NA	5.3 U	NA	5 UJ	NA
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{ID}	{NLV}	0.022	**2.1 U [2.1 U]**	NA	**2.1 U**	NA	**2 U**	NA
Isophorone	ug/L	{ID}	1,300 {(X)}	{NLV}	12,000,000	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
Methylphenols, Total	ug/L	{NA}	30 {(M); 25}	{NLV}	28,000,000	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
Nitrobenzene	ug/L	{NA}	180 {(X)}	550,000	2,090,000	2.1 U [2.1 U]	NA	2.1 U	NA	2 U	NA
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NA}	{NLV}	9,890,000	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA

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N-Nitrosodiphenylamine	ug/L	{ID}	{NA}	{NLV}	35,100	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
Pentachlorophenol	ug/L	{ID}	2.8 {(G,X)}	{NLV}	1,850,000	**21 U [21 U]**	NA	**21 U**	NA	**20 U**	NA
Phenanthrene	ug/L	{ID}	2 {(M); 1.4}	1,000 {(S)}	1,000	**5.3 U [5.3 U]**	NA	**5.3 U**	NA	**5 U**	NA
Phenol	ug/L	{NA}	450	{NLV}	82,800,000	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
Pyrene	ug/L	{ID}	{ID}	140 {(S)}	135	5.3 U [5.3 U]	NA	5.3 U	NA	5 U	NA
PCB											
Aroclor-1016	ug/L	- -	- -	- -	- -	0.1 U [0.11 U]	NA	0.11 U	NA	0.11 U	NA
Aroclor-1221	ug/L	- -	- -	- -	- -	0.1 U [0.11 U]	NA	0.11 U	NA	0.11 U	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	0.1 U [0.11 U]	NA	0.11 U	NA	0.11 U	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	0.1 U [0.11 U]	NA	0.11 U	NA	0.11 U	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	0.1 U [0.11 U]	NA	0.11 U	NA	0.11 U	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	0.1 U [0.11 U]	NA	0.11 U	NA	0.11 U	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	0.1 U [0.11 U]	NA	0.11 U	NA	0.11 U	NA
Total PCBs	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	0.1 U [0.11 U]	NA	0.11 U	NA	0.11 U	NA
PCB-Dissolved											
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U [0.1 U]	NA	0.11 U	NA	0.11 U	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U [0.1 U]	NA	0.11 U	NA	0.11 U	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U [0.1 U]	NA	0.11 U	NA	0.11 U	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U [0.1 U]	NA	0.11 U	NA	0.11 U	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U [0.1 U]	NA	0.11 U	NA	0.11 U	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U [0.1 U]	NA	0.11 U	NA	0.11 U	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U [0.1 U]	NA	0.11 U	NA	0.11 U	NA
Total PCBs (Dissolved)	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	0.1 U [0.1 U]	NA	0.11 U	NA	0.11 U	NA
Inorganic											
Antimony	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Arsenic	ug/L	{ID}	10	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Barium	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Beryllium	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Cadmium	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Chromium Total	ug/L	- -	170 {(G,X)}	- -	- -	NA	NA	NA	NA	NA	NA
Cobalt	ug/L	{ID}	100	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Copper	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Cyanide (total)	ug/L	{ID}	5.2	{NLV}	{NA}	NA	1.9 J	NA	4.1 J	NA	1.5 J
Lead	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Manganese	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Mercury	ug/L	{ID}	0.0013	56 {(S)}	56	NA	**0.2 U**	NA	**0.2 U**	NA	**0.2 U**
Nickel	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Selenium	ug/L	{ID}	5	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Silver	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Thallium	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Vanadium	ug/L	{ID}	27	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Zinc	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved											
Antimony (Dissolved)	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	1.2 U [1.2 U]	NA	2.8	NA	3.1 U	NA

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-16-07 08/10/01	RFI-16-07 09/18/01	RFI-16-09 08/10/01	RFI-16-09 09/18/01	RFI-16-11 08/13/01	RFI-16-11 09/18/01
Arsenic (Dissolved)	ug/L	{ID}	10	{NLV}	{NA}	1 U [1.3 J]	NA	6.7	NA	**19 (GSI (2013))**	NA
Barium (Dissolved)	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	7.3 [7.6]	NA	10	NA	120	NA
Beryllium (Dissolved)	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	0.4 U [0.4 U]	NA	0.4 U	NA	0.4 U	NA
Cadmium (Dissolved)	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	0.2 U [0.2 U]	NA	0.2 U	NA	0.2 U	NA
Chromium Total (Dissolved)	ug/L	- -	170 {(G,X)}	- -	- -	0.88 J [0.6 U]	NA	2.9	NA	4	NA
Cobalt (Dissolved)	ug/L	{ID}	100	{NLV}	{NA}	0.2 U [0.21 J]	NA	0.36	NA	0.36	NA
Copper (Dissolved)	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	20 J [5.5 J]	NA	**100 J (GSI (2013))**	NA	5.8	NA
Cyanide (dissolved)	ug/L	{ID}	5.2	{NLV}	{NA}	5 U [5 U]	NA	4.5 J	NA	1.6 J	NA
Lead (Dissolved)	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	0.4 U [0.4 U]	NA	0.4 U	NA	0.4 U	NA
Manganese (Dissolved)	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	350 [370]	NA	22	NA	220 J	NA
Mercury (Dissolved)	ug/L	- -	0.0013	- -	- -	**0.2 U [0.2 U]**	NA	**0.2 U**	NA	**0.2 U**	NA
Nickel (Dissolved)	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	0.97 [0.93]	NA	2.6	NA	5.1	NA
Selenium (Dissolved)	ug/L	{ID}	5	{NLV}	{NA}	1.4 U [1.4 U]	NA	2.8	NA	3.6 J	NA
Silver (Dissolved)	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	**0.4 UJ [0.4 UJ]**	NA	**0.4 UJ**	NA	**0.4 UJ**	NA
Thallium (Dissolved)	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	0.2 U [0.2 U]	NA	0.2 U	NA	0.2 U	NA
Vanadium (Dissolved)	ug/L	{ID}	27	{NLV}	{NA}	0.8 U [0.8 U]	NA	3.4	NA	0.97	NA
Zinc (Dissolved)	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	18 J [6 U]	NA	6.2	NA	6 U	NA
Field Parameters											
Conductivity Field	mS/cm	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
pH Field	s.u.	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Field Parameters-Filtered											
Dissolved Oxygen, Field	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-16-11 06/26/02	RFI-16-11 03/26/03	RFI-16-12 02/28/02	RFI-16-12 06/24/02	RFI-16-20 12/12/01	RFI-16-20 04/09/02
VOC											
1,1,1,2-Tetrachloroethane	ug/L	{ID}	{ID}	96,000	1,100,000	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/L	{ID}	89	1,300,000 {(S)}	1,330,000	1 U	1 U	1 UJ	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	{ID}	78 {(X)}	77,000	2,970,000	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	32	170,000 {(S)}	170,000	1 UJ	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/L	{NA}	330 {(X)}	110,000	4,420,000	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	ug/L	{NA}	{NA}	18,000	1,900,000	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	{NA}	99 {(X)}	300,000 {(S)}	300,000	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trimethylbenzene	ug/L	56,000 {(S)}	17	56,000 {(S)}	55,890	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	{NA}	{ID}	1,200 {(S)}	1,230	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	ug/L	{ID}	5.7 {(X)}	15,000	4,200,000	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	ug/L	{NA}	13	160,000 {(S)}	156,000	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/L	2,500,000	360 {(X)}	59,000	8,520,000	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/L	550,000	230 {(X)}	36,000	2,800,000	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/L	{ID}	45	61,000 {(S)}	61,150	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/L	{ID}	28	41,000	111,000	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	ug/L	{NA}	17	74,000 {(S)}	73,800	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	ug/L	{ID}	2,200	240,000,000 {(S)}	240,000,000	25 U	25 U	3.6 J	4.1 J	25 U	25 U
2-Hexanone	ug/L	{NA}	{ID}	8,700,000	16,000,000	50 U	50 U	50 U	50 U	50 U	50 U
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	ug/L	{ID}	{ID}	20,000,000 {(S)}	20,000,000	50 U	50 U	50 U	50 U	50 U	50 U
Acetone	ug/L	15,000,000	1,700	1,000,000,000 {(D,S)}	1,000,000,000	4.8 J	25 U	12 J	16 J	25 U	25 U
Acrylonitrile	ug/L	6,400,000	2 {(M); 1.2}	190,000	75,000,000	NA	NA	NA	NA	NA	NA
Benzene	ug/L	68,000	200 {(X)}	35,000	1,750,000	**210 D (GSI (2013))**	1 U	1 U	1 U	1 U	1 U
Bromobenzene	ug/L	{ID}	{NA}	390,000	413,000	NA	NA	NA	NA	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/L	{ID}	{ID}	37,000	6,740,000	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/L	{ID}	{ID}	3,100,000 {(S)}	3,100,000	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/L	{ID}	35	9,000	14,500,000	1 U	1 U	1 UJ	1 U	1 U	1 U
Carbon Disulfide	ug/L	13,000	{ID}	550,000	1,190,000	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	ug/L	{ID}	45 {(X)}	2,400	793,000	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/L	160,000	25	470,000 {(S)}	472,000	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/L	110,000	1,100 {(X)}	5,700,000 {(S)}	5,740,000	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	ug/L	{ID}	350	180,000	7,920,000	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	ug/L	36,000	{ID}	45,000	6,340,000	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	1 U	1 U	0.9 J	1 U	1 U	1 U
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	ug/L	- -	- -	- -	- -	16	5 U	5 UJ	5 U	5 U	5 U
Dibromochloromethane	ug/L	{ID}	{ID}	110,000	2,600,000	1 U	1 U	1 U	1 U	1 U	1 U
Dibromomethane	ug/L	{ID}	{NA}	{ID}	11,000,000	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/L	{ID}	{ID}	300,000 {(S)}	300,000	1 U	1 U	1 U	1 U	1 U	1 U

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-16-11 06/26/02	RFI-16-11 03/26/03	RFI-16-12 02/28/02	RFI-16-12 06/24/02	RFI-16-20 12/12/01	RFI-16-20 04/09/02
Diethyl ether	ug/L	650,000	{ID}	61,000,000 {(S)}	61,000,000	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/L	43,000	18	170,000 {(S)}	169,000	1 U	1 U	1 U	1 U	1 U	1 U
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	NA	NA	NA	NA	NA	NA
Iodomethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Isopropylbenzene	ug/L	29,000	28	56,000 {(S)}	56,000	5 U	5 U	3.2 J	1.2 J	5 U	5 U
m&p-Xylene	ug/L	- -	- -	- -	- -	0.53 J	2 U	2 U	2 U	2 U	2 U
Methyl acetate	ug/L	- -	- -	- -	- -	5 U	5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether	ug/L	{ID}	7,100 {(X)}	47,000,000 {(S)}	46,800,000	5 U	5 U	5 UJ	5 U	5 U	5 U
Methylcyclohexane	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	ug/L	{ID}	1,500 {(X)}	1,400,000	17,000,000	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
n-Propylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
o-Xylene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U
p-Isopropyltoluene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Styrene	ug/L	140,000	80 {(X)}	310,000 {(S)}	310,000	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/L	{ID}	60 {(X)}	170,000	200,000	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	ug/L	60,000	11,000 {(X)}	16,000,000	1,000,000,000	NA	NA	NA	NA	NA	NA
Toluene	ug/L	61,000	270	530,000 {(S)}	526,000	1.2	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/L	230,000	1,500 {(X)}	200,000	6,300,000	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/L	{ID}	200 {(X)}	4,900	1,100,000	1 U	1 U	1 U	1 U	0.52 J	1 U
Trichlorofluoromethane	ug/L	{ID}	{NA}	1,100,000 {(S)}	1,100,000	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	ug/L	33,000	13 {(X)}	13,000	2,760,000	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	ug/L	70,000	41	190,000 {(S)}	186,000	1 U	1 U	1 U	1 U	1 U	1 U
SVOC											
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	NA	NA	5 U	NA	5 U	25 U
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	NA	NA	5 U	NA	5 U	25 U
2,4,5-Trichlorophenol	ug/L	{ID}	{NA}	{NLV}	1,200,000	NA	NA	5 UJ	NA	5 U	25 U
2,4,6-Trichlorophenol	ug/L	{ID}	5	{NLV}	800,000	NA	NA	4 UJ	NA	4 U	**20 U**
2,4-Dichlorophenol	ug/L	{ID}	11	{NLV}	4,500,000	NA	NA	10 UJ	NA	10 U	**50 U**
2,4-Dimethylphenol	ug/L	{ID}	380	{NLV}	7,870,000	NA	NA	5 UJ	NA	5 U	25 U
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	NA	NA	20 UJ	NA	20 U	100 U
2,4-Dinitrotoluene	ug/L	{ID}	{NA}	{NLV}	270,000	NA	NA	5 U	NA	5 U	25 U
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	NA	NA	5 U	NA	5 U	25 U
2-Chloronaphthalene	ug/L	{ID}	{NA}	{ID}	6,740	NA	NA	5 U	NA	5 U	25 U
2-Chlorophenol	ug/L	{ID}	18	1,100,000	22,000,000	NA	NA	5 UJ	NA	5 U	**25 U**
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	NA	NA	5 U	NA	5 U	**25 U**
2-Methylphenol	ug/L	- -	- -	- -	- -	NA	NA	5 UJ	NA	5 U	25 U
2-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	20 U	NA	20 U	100 U
2-Nitrophenol	ug/L	{ID}	{ID}	{NLV}	2,500,000	NA	NA	5 UJ	NA	5 U	25 U
3&4-Methylphenol	ug/L	- -	- -	- -	- -	NA	NA	10 UJ	NA	10 UJ	50 UJ

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-16-11 06/26/02	RFI-16-11 03/26/03	RFI-16-12 02/28/02	RFI-16-12 06/24/02	RFI-16-20 12/12/01	RFI-16-20 04/09/02
3,3'-Dichlorobenzidine	ug/L	{ID}	0.3 {(M); 0.2}	{NLV}	3,110	NA	NA	**20 U**	NA	**20 U**	**100 U**
3-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	20 U	NA	20 U	100 U
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	NA	NA	20 UJ	NA	20 U	100 U
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	NA	5 U	NA	5 U	25 U
4-Chloro-3-Methylphenol	ug/L	{ID}	7.4	{NLV}	3,900,000	NA	NA	5 UJ	NA	5 U	**25 U**
4-Chloroaniline	ug/L	- -	- -	- -	- -	NA	NA	20 U	NA	20 U	100 U
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	NA	5 U	NA	5 U	25 U
4-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	20 UJ	NA	20 U	100 U
4-Nitrophenol	ug/L	- -	- -	- -	- -	NA	NA	20 UJ	NA	20 U	100 U
Acenaphthene	ug/L	{ID}	38	4,200 {(S)}	4,240	NA	NA	5 U	NA	5 U	25 U
Acenaphthylene	ug/L	{ID}	{ID}	3,900 {(S)}	3,930	NA	NA	5 U	NA	5 U	25 U
Acetophenone	ug/L	{ID}	{ID}	6,100,000 {(S)}	6,100,000	NA	NA	5 U	NA	5 U	25 U
Anthracene	ug/L	{ID}	{ID}	43 {(S)}	43.4	NA	NA	5 U	NA	5 U	25 U
Atrazine	ug/L	{ID}	7.3	{NLV}	70,000	NA	NA	5 U	NA	5 U	**25 U**
Benzaldehyde	ug/L	- -	- -	- -	- -	NA	NA	5 UJ	NA	5 U	25 UJ
Benzo(a)anthracene	ug/L	{ID}	{ID}	{NLV}	9.4	NA	NA	1 U	NA	1 U	5 U
Benzo(a)pyrene	ug/L	{ID}	{ID}	{NLV}	1.62	NA	NA	**2 U**	NA	**2 U**	**10 U**
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	{ID}	1.5	NA	NA	**2 U**	NA	**2 U**	**10 UJ**
Benzo(g,h,i)perylene	ug/L	{ID}	{ID}	{NLV}	0.26	NA	NA	**5 U**	NA	**5 U**	**25 U**
Benzo(k)fluoranthene	ug/L	{ID}	{NA}	{NLV}	0.8	NA	NA	**5 U**	NA	**5 U**	**25 U**
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	NA	NA	5 U	NA	5 U	25 U
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	1 {(M); 0.79}	210,000	17,200,000	NA	NA	1 U	NA	1 U	**5 U**
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	25	{NLV}	340	NA	NA	5 U	NA	7.48 U	25 U
Butylbenzylphthalate	ug/L	{ID}	67 {(X)}	{NLV}	2,690	NA	NA	5 U	NA	5 U	25 U
Caprolactam	ug/L	{NA}	{NA}	{NLV}	5,250,000,000	NA	NA	10 U	NA	10 U	50 U
Carbazole	ug/L	{ID}	10 {(M); 4.0}	{NLV}	7,480	NA	NA	10 U	NA	10 U	**50 U**
Chrysene	ug/L	{ID}	{ID}	{ID}	1.6	NA	NA	**5 U**	NA	**5 U**	**25 U**
Dibenzo(a,h)anthracene	ug/L	{ID}	{ID}	{NLV}	2.49	NA	NA	2 U	NA	2 U	**10 U**
Dibenzofuran	ug/L	{ID}	4	10,000 {(S)}	10,000	NA	NA	4 U	NA	4 U	**20 U**
Diethylphthalate	ug/L	{NA}	110	{NLV}	1,080,000	NA	NA	3.91 J	NA	1.83 J	25 U
Dimethylphthalate	ug/L	{NA}	{NA}	{NLV}	4,190,000	NA	NA	5 U	NA	5 U	25 U
Di-n-Butylphthalate	ug/L	{NA}	9.7	{NLV}	11,200	NA	NA	5 U	NA	5 U	**25 U**
Di-n-Octylphthalate	ug/L	{ID}	{ID}	{NLV}	3,000	NA	NA	5 U	NA	5 U	25 U
Fluoranthene	ug/L	{ID}	1.6	210 {(S)}	206	NA	NA	**2 U**	NA	**2 U**	**10 U**
Fluorene	ug/L	{ID}	12	2,000 {(S)}	1,980	NA	NA	5 U	NA	5 U	**25 U**
Hexachlorobenzene	ug/L	{ID}	0.2 {(M); 0.0003}	3,000	6,200	NA	NA	**1 U**	NA	**1 U**	**5 U**
Hexachlorobutadiene	ug/L	{ID}	0.053	3,200 {(S)}	3,230	NA	NA	**5 U**	NA	**5 U**	**25 U**
Hexachlorocyclopentadiene	ug/L	{ID}	{ID}	420	1,800	NA	NA	5 U	NA	5 U	25 U
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	NA	NA	5 U	NA	5 U	**25 U**
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{ID}	{NLV}	0.022	NA	NA	**2 U**	NA	**2 U**	**10 U**
Isophorone	ug/L	{ID}	1,300 {(X)}	{NLV}	12,000,000	NA	NA	5 U	NA	5 U	25 U
Methylphenols, Total	ug/L	{NA}	30 {(M); 25}	{NLV}	28,000,000	NA	NA	5 U	NA	5 U	25 U
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	NA	NA	5 U	NA	5 U	**25 U**
Nitrobenzene	ug/L	{NA}	180 {(X)}	550,000	2,090,000	NA	NA	2 U	NA	2 U	10 U
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NA}	{NLV}	9,890,000	NA	NA	5 U	NA	5 U	25 U

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-16-11 06/26/02	RFI-16-11 03/26/03	RFI-16-12 02/28/02	RFI-16-12 06/24/02	RFI-16-20 12/12/01	RFI-16-20 04/09/02
N-Nitrosodiphenylamine	ug/L	{ID}	{NA}	{NLV}	35,100	NA	NA	5 U	NA	5 U	25 U
Pentachlorophenol	ug/L	{ID}	2.8 {(G,X)}	{NLV}	1,850,000	NA	NA	**20 UJ**	NA	**20 U**	**100 U**
Phenanthrene	ug/L	{ID}	2 {(M); 1.4}	1,000 {(S)}	1,000	NA	NA	**5 U**	NA	**5 U**	**25 U**
Phenol	ug/L	{NA}	450	{NLV}	82,800,000	NA	NA	5 UJ	NA	5 U	25 U
Pyrene	ug/L	{ID}	{ID}	140 {(S)}	135	NA	NA	5 U	NA	5 U	25 U
PCB											
Aroclor-1016	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	0.11 U	NA
Aroclor-1221	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	0.11 U	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	0.11 U	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	0.11 U	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	0.11 U	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	0.11 U	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	0.11 U	NA
Total PCBs	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	NA	NA	0.1 U	NA	0.11 U	NA
PCB-Dissolved											
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	0.11 U	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	0.11 U	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	0.11 U	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	0.11 U	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	0.11 U	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	0.11 U	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	0.11 U	NA
Total PCBs (Dissolved)	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	NA	NA	0.1 U	NA	0.11 U	NA
Inorganic											
Antimony	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	NA	NA	NA	0.38 J	1.2 U	NA
Arsenic	ug/L	{ID}	10	{NLV}	{NA}	NA	NA	NA	**12 (GSI (2013))**	2 J	NA
Barium	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	NA	NA	NA	330	200	NA
Beryllium	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	NA	NA	NA	0.4 U	1.8 J	NA
Cadmium	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	NA	NA	NA	0.2 U	0.58	NA
Chromium Total	ug/L	- -	170 {(G,X)}	- -	- -	NA	NA	NA	1.2	1.5	NA
Cobalt	ug/L	{ID}	100	{NLV}	{NA}	NA	NA	NA	0.86	1.5	NA
Copper	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	NA	NA	NA	9.3	2.7	NA
Cyanide (total)	ug/L	{ID}	5.2	{NLV}	{NA}	NA	NA	**60 (GSI (2013))**	**26 (GSI (2013))**	**33 (GSI (2013))**	NA
Lead	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	NA	NA	NA	0.92	0.42 U	NA
Manganese	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	NA	NA	NA	680 J	12	NA
Mercury	ug/L	{ID}	0.0013	56 {(S)}	56	NA	NA	**0.2 U**	**0.2 U**	**0.2 U**	NA
Nickel	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	NA	NA	NA	9.9	5.7	NA
Selenium	ug/L	{ID}	5	{NLV}	{NA}	NA	NA	NA	1.3 J	1.4 U	NA
Silver	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	NA	NA	NA	**0.4 UJ**	**0.29 J (GSI (2013))**	NA
Thallium	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	NA	NA	NA	0.2 U	0.2 U	NA
Vanadium	ug/L	{ID}	27	{NLV}	{NA}	NA	NA	NA	2.5	0.8 U	NA
Zinc	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	NA	NA	NA	13	9	NA
Inorganic-Dissolved											
Antimony (Dissolved)	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	NA	NA	3.2 J	NA	1.2 U	NA

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-16-11 06/26/02	RFI-16-11 03/26/03	RFI-16-12 02/28/02	RFI-16-12 06/24/02	RFI-16-20 12/12/01	RFI-16-20 04/09/02
Arsenic (Dissolved)	ug/L	{ID}	10	{NLV}	{NA}	NA	NA	**19 (GSI (2013))**	NA	2.5	NA
Barium (Dissolved)	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	NA	NA	370 J	NA	180	NA
Beryllium (Dissolved)	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	NA	NA	**44 J (GSI (2013))**	NA	0.4 U	NA
Cadmium (Dissolved)	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	NA	NA	3.2 J	NA	0.2 U	NA
Chromium Total (Dissolved)	ug/L	- -	170 {(G,X)}	- -	- -	NA	NA	21 J	NA	3.3	NA
Cobalt (Dissolved)	ug/L	{ID}	100	{NLV}	{NA}	NA	NA	3.7 J	NA	0.98	NA
Copper (Dissolved)	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	NA	NA	14	NA	3.4	NA
Cyanide (dissolved)	ug/L	{ID}	5.2	{NLV}	{NA}	NA	NA	**62 (GSI (2013))**	NA	**34 (GSI (2013))**	NA
Lead (Dissolved)	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	NA	NA	1 J	NA	0.4 U	0.42
Manganese (Dissolved)	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	NA	NA	1,200 J	NA	12	NA
Mercury (Dissolved)	ug/L	- -	0.0013	- -	- -	NA	NA	**0.2 U**	NA	**0.2 U**	NA
Nickel (Dissolved)	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	NA	NA	28 J	NA	7.1	NA
Selenium (Dissolved)	ug/L	{ID}	5	{NLV}	{NA}	NA	NA	**180 J (GSI (2013))**	NA	4.6 J	NA
Silver (Dissolved)	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	NA	NA	**2 J (GSI (2013))**	NA	**0.92 U**	NA
Thallium (Dissolved)	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	NA	NA	1.5	NA	0.2 U	NA
Vanadium (Dissolved)	ug/L	{ID}	27	{NLV}	{NA}	NA	NA	6.6	NA	0.8 U	NA
Zinc (Dissolved)	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	NA	NA	49 J	NA	6.8	NA
Field Parameters											
Conductivity Field	mS/cm	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
pH Field	s.u.	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Field Parameters-Filtered											
Dissolved Oxygen, Field	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-16-24 04/03/03	RFI-16-25 04/03/03	RFI-40-10 02/21/02	RFI-40-10 06/24/02	RFI-40-10R 04/24/03
VOC										
1,1,1,2-Tetrachloroethane	ug/L	{ID}	{ID}	96,000	1,100,000	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/L	{ID}	89	1,300,000 {(S)}	1,330,000	1 U	1 U [1 U]	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	{ID}	78 {(X)}	77,000	2,970,000	1 U	1 U [1 U]	1 U	1 U	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	32	170,000 {(S)}	170,000	1 U	1 U [1 U]	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/L	{NA}	330 {(X)}	110,000	4,420,000	1 U	1 U [1 U]	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	1 U	1 U [1 U]	1 U	1 U	0.67 J
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	1 U	1 U [1 U]	1 U	1 U	1 U
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	ug/L	{NA}	{NA}	18,000	1,900,000	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	{NA}	99 {(X)}	300,000 {(S)}	300,000	5 U	5 U [5 U]	5 U	5 U	5 U
1,2,4-Trimethylbenzene	ug/L	56,000 {(S)}	17	56,000 {(S)}	55,890	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	{NA}	{ID}	1,200 {(S)}	1,230	1 U	1 U [1 U]	1 U	1 U	1 U
1,2-Dibromoethane	ug/L	{ID}	5.7 {(X)}	15,000	4,200,000	1 U	1 U [1 U]	1 U	1 U	1 U
1,2-Dichlorobenzene	ug/L	{NA}	13	160,000 {(S)}	156,000	1 U	1 U [1 U]	1 U	1 U	1 U
1,2-Dichloroethane	ug/L	2,500,000	360 {(X)}	59,000	8,520,000	1 U	1 U [1 U]	1 U	1 U	1 U
1,2-Dichloropropane	ug/L	550,000	230 {(X)}	36,000	2,800,000	1 U	1 U [1 U]	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/L	{ID}	45	61,000 {(S)}	61,150	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/L	{ID}	28	41,000	111,000	1 U	1 U [1 U]	1 U	1 U	1 U
1,4-Dichlorobenzene	ug/L	{NA}	17	74,000 {(S)}	73,800	1 U	1 U [1 U]	1 U	1 U	1 U
2-Butanone	ug/L	{ID}	2,200	240,000,000 {(S)}	240,000,000	25 U	25 U [25 U]	25 U	25 UJ	25 U
2-Hexanone	ug/L	{NA}	{ID}	8,700,000	16,000,000	50 U	50 U [50 U]	50 U	50 U	50 U
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	ug/L	{ID}	{ID}	20,000,000 {(S)}	20,000,000	50 U	50 U [50 U]	50 U	50 U	50 U
Acetone	ug/L	15,000,000	1,700	1,000,000,000 {(D,S)}	1,000,000,000	25 U	25 U [25 U]	25 U	25 U	1.4 J
Acrylonitrile	ug/L	6,400,000	2 {(M); 1.2}	190,000	75,000,000	NA	NA	NA	NA	NA
Benzene	ug/L	68,000	200 {(X)}	35,000	1,750,000	1 U	1 U [1 U]	1 U	1 U	1 U
Bromobenzene	ug/L	{ID}	{NA}	390,000	413,000	NA	NA	NA	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA
Bromodichloromethane	ug/L	{ID}	{ID}	37,000	6,740,000	1 U	1 U [1 U]	1 U	1 U	1 U
Bromoform	ug/L	{ID}	{ID}	3,100,000 {(S)}	3,100,000	1 U	1 U [1 U]	1 U	1 U	1 U
Bromomethane	ug/L	{ID}	35	9,000	14,500,000	1 U	1 U [1 U]	1 U	1 U	1 U
Carbon Disulfide	ug/L	13,000	{ID}	550,000	1,190,000	5 U	5 U [5 U]	5 U	5 U	5 U
Carbon Tetrachloride	ug/L	{ID}	45 {(X)}	2,400	793,000	1 U	1 U [1 U]	1 U	1 U	1 U
Chlorobenzene	ug/L	160,000	25	470,000 {(S)}	472,000	1 U	1 U [1 U]	1 U	1 U	1 U
Chloroethane	ug/L	110,000	1,100 {(X)}	5,700,000 {(S)}	5,740,000	1 U	1 U [1 U]	1 U	1 U	1 U
Chloroform	ug/L	{ID}	350	180,000	7,920,000	1 U	1 U [1 U]	1 U	1 U	1 U
Chloromethane	ug/L	36,000	{ID}	45,000	6,340,000	1 U	1 U [1 U]	1 U	1 U	1 U
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	1 U	1 U [1 U]	4.4	5.5	93
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U [1 U]	1 U	1 U	1 U
Cyclohexane	ug/L	- -	- -	- -	- -	5 U	5 U [5 U]	5 U	5 U	5 U
Dibromochloromethane	ug/L	{ID}	{ID}	110,000	2,600,000	1 U	1 U [1 U]	1 U	1 U	1 U
Dibromomethane	ug/L	{ID}	{NA}	{ID}	11,000,000	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/L	{ID}	{ID}	300,000 {(S)}	300,000	1 U	1 U [1 U]	1 U	1 U	1 U

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-16-24 04/03/03	RFI-16-25 04/03/03	RFI-40-10 02/21/02	RFI-40-10 06/24/02	RFI-40-10R 04/24/03
Diethyl ether	ug/L	650,000	{ID}	61,000,000 {(S)}	61,000,000	NA	NA	NA	NA	NA
Ethylbenzene	ug/L	43,000	18	170,000 {(S)}	169,000	1 U	1 U [1 U]	1 U	1 U	1 U
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	NA	NA	NA	NA	NA
Iodomethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA
Isopropylbenzene	ug/L	29,000	28	56,000 {(S)}	56,000	5 U	5 U [5 U]	5 U	5 U	5 U
m&p-Xylene	ug/L	- -	- -	- -	- -	2 U	2 U [2 U]	2 U	2 U	2 U
Methyl acetate	ug/L	- -	- -	- -	- -	5 U	5 UJ [5 U]	5 U	5 U	5 U
Methyl tert-butyl ether	ug/L	{ID}	7,100 {(X)}	47,000,000 {(S)}	46,800,000	5 U	5 U [5 U]	5 U	5 U	5 U
Methylcyclohexane	ug/L	- -	- -	- -	- -	1 U	1 U [1 U]	1 U	1 U	1 U
Methylene Chloride	ug/L	{ID}	1,500 {(X)}	1,400,000	17,000,000	5 U	5 U [5 U]	5 U	5 U	5 U
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	NA	NA	NA	NA	NA
n-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA
n-Propylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA
o-Xylene	ug/L	- -	- -	- -	- -	1 U	1 U [1 U]	1 U	1 U	1 U
p-Isopropyltoluene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA
sec-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA
Styrene	ug/L	140,000	80 {(X)}	310,000 {(S)}	310,000	1 U	1 U [1 U]	1 U	1 U	1 U
tert-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA
Tetrachloroethene	ug/L	{ID}	60 {(X)}	170,000	200,000	1 U	1 U [1 U]	0.69 J	0.52 J	1 U
Tetrahydrofuran	ug/L	60,000	11,000 {(X)}	16,000,000	1,000,000,000	NA	NA	NA	NA	NA
Toluene	ug/L	61,000	270	530,000 {(S)}	526,000	1 U	1 U [1 U]	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/L	230,000	1,500 {(X)}	200,000	6,300,000	1 U	1 U [1 U]	1 U	1 U	3.3
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U [1 U]	1 U	1 U	1 U
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA
Trichloroethene	ug/L	{ID}	200 {(X)}	4,900	1,100,000	1 U	1 U [1 U]	18	17	100
Trichlorofluoromethane	ug/L	{ID}	{NA}	1,100,000 {(S)}	1,100,000	1 U	1 U [1 U]	1 U	1 U	1 U
Vinyl Chloride	ug/L	33,000	13 {(X)}	13,000	2,760,000	1 U	1 U [1 U]	1 U	1 U	7.8
Xylenes (total)	ug/L	70,000	41	190,000 {(S)}	186,000	1 U	1 U [1 U]	1 U	1 U	1 U
SVOC										
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	NA	NA	5 U	NA	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	NA	NA	5 U	NA	NA
2,4,5-Trichlorophenol	ug/L	{ID}	{NA}	{NLV}	1,200,000	NA	NA	5 U	NA	NA
2,4,6-Trichlorophenol	ug/L	{ID}	5	{NLV}	800,000	NA	NA	4 U	NA	NA
2,4-Dichlorophenol	ug/L	{ID}	11	{NLV}	4,500,000	NA	NA	10 U	NA	NA
2,4-Dimethylphenol	ug/L	{ID}	380	{NLV}	7,870,000	NA	NA	5 U	NA	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	NA	NA	20 U	NA	NA
2,4-Dinitrotoluene	ug/L	{ID}	{NA}	{NLV}	270,000	NA	NA	5 U	NA	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	NA	NA	5 U	NA	NA
2-Chloronaphthalene	ug/L	{ID}	{NA}	{ID}	6,740	NA	NA	5 U	NA	NA
2-Chlorophenol	ug/L	{ID}	18	1,100,000	22,000,000	NA	NA	5 U	NA	NA
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	NA	NA	5 U	NA	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	NA	NA	5 U	NA	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	20 U	NA	NA
2-Nitrophenol	ug/L	{ID}	{ID}	{NLV}	2,500,000	NA	NA	5 U	NA	NA
3&4-Methylphenol	ug/L	- -	- -	- -	- -	NA	NA	10 UJ	NA	NA

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-16-24 04/03/03	RFI-16-25 04/03/03	RFI-40-10 02/21/02	RFI-40-10 06/24/02	RFI-40-10R 04/24/03
3,3'-Dichlorobenzidine	ug/L	{ID}	0.3 {(M); 0.2}	{NLV}	3,110	NA	NA	**20 U**	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	20 U	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	NA	NA	20 U	NA	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	NA	5 U	NA	NA
4-Chloro-3-Methylphenol	ug/L	{ID}	7.4	{NLV}	3,900,000	NA	NA	5 U	NA	NA
4-Chloroaniline	ug/L	- -	- -	- -	- -	NA	NA	20 U	NA	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	NA	5 U	NA	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	20 U	NA	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	NA	NA	20 U	NA	NA
Acenaphthene	ug/L	{ID}	38	4,200 {(S)}	4,240	NA	NA	5 U	NA	NA
Acenaphthylene	ug/L	{ID}	{ID}	3,900 {(S)}	3,930	NA	NA	5 U	NA	NA
Acetophenone	ug/L	{ID}	{ID}	6,100,000 {(S)}	6,100,000	NA	NA	5 U	NA	NA
Anthracene	ug/L	{ID}	{ID}	43 {(S)}	43.4	NA	NA	5 U	NA	NA
Atrazine	ug/L	{ID}	7.3	{NLV}	70,000	NA	NA	5 U	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	NA	NA	5 UJ	NA	NA
Benzo(a)anthracene	ug/L	{ID}	{ID}	{NLV}	9.4	NA	NA	1 U	NA	NA
Benzo(a)pyrene	ug/L	{ID}	{ID}	{NLV}	1.62	NA	NA	**2 U**	NA	NA
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	{ID}	1.5	NA	NA	**2 U**	NA	NA
Benzo(g,h,i)perylene	ug/L	{ID}	{ID}	{NLV}	0.26	NA	NA	**5 U**	NA	NA
Benzo(k)fluoranthene	ug/L	{ID}	{NA}	{NLV}	0.8	NA	NA	**5 U**	NA	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	NA	NA	5 U	NA	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	1 {(M); 0.79}	210,000	17,200,000	NA	NA	1 U	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	25	{NLV}	340	NA	NA	5 U	NA	NA
Butylbenzylphthalate	ug/L	{ID}	67 {(X)}	{NLV}	2,690	NA	NA	5 U	NA	NA
Caprolactam	ug/L	{NA}	{NA}	{NLV}	5,250,000,000	NA	NA	10 U	NA	NA
Carbazole	ug/L	{ID}	10 {(M); 4.0}	{NLV}	7,480	NA	NA	10 U	NA	NA
Chrysene	ug/L	{ID}	{ID}	{ID}	1.6	NA	NA	**5 U**	NA	NA
Dibenzo(a,h)anthracene	ug/L	{ID}	{ID}	{NLV}	2.49	NA	NA	2 U	NA	NA
Dibenzofuran	ug/L	{ID}	4	10,000 {(S)}	10,000	NA	NA	4 U	NA	NA
Diethylphthalate	ug/L	{NA}	110	{NLV}	1,080,000	NA	NA	5 U	NA	NA
Dimethylphthalate	ug/L	{NA}	{NA}	{NLV}	4,190,000	NA	NA	5 U	NA	NA
Di-n-Butylphthalate	ug/L	{NA}	9.7	{NLV}	11,200	NA	NA	5 U	NA	NA
Di-n-Octylphthalate	ug/L	{ID}	{ID}	{NLV}	3,000	NA	NA	5 U	NA	NA
Fluoranthene	ug/L	{ID}	1.6	210 {(S)}	206	NA	NA	**2 U**	NA	NA
Fluorene	ug/L	{ID}	12	2,000 {(S)}	1,980	NA	NA	5 U	NA	NA
Hexachlorobenzene	ug/L	{ID}	0.2 {(M); 0.0003}	3,000	6,200	NA	NA	**1 U**	NA	NA
Hexachlorobutadiene	ug/L	{ID}	0.053	3,200 {(S)}	3,230	NA	NA	**5 U**	NA	NA
Hexachlorocyclopentadiene	ug/L	{ID}	{ID}	420	1,800	NA	NA	5 U	NA	NA
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	NA	NA	5 U	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{ID}	{NLV}	0.022	NA	NA	**2 U**	NA	NA
Isophorone	ug/L	{ID}	1,300 {(X)}	{NLV}	12,000,000	NA	NA	5 U	NA	NA
Methylphenols, Total	ug/L	{NA}	30 {(M); 25}	{NLV}	28,000,000	NA	NA	5 U	NA	NA
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	NA	NA	5 U	NA	NA
Nitrobenzene	ug/L	{NA}	180 {(X)}	550,000	2,090,000	NA	NA	2 U	NA	NA
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NA}	{NLV}	9,890,000	NA	NA	5 U	NA	NA

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-16-24 04/03/03	RFI-16-25 04/03/03	RFI-40-10 02/21/02	RFI-40-10 06/24/02	RFI-40-10R 04/24/03
N-Nitrosodiphenylamine	ug/L	{ID}	{NA}	{NLV}	35,100	NA	NA	5 U	NA	NA
Pentachlorophenol	ug/L	{ID}	2.8 {(G,X)}	{NLV}	1,850,000	NA	NA	**20 U**	NA	NA
Phenanthrene	ug/L	{ID}	2 {(M); 1.4}	1,000 {(S)}	1,000	NA	NA	**5 U**	NA	NA
Phenol	ug/L	{NA}	450	{NLV}	82,800,000	NA	NA	5 U	NA	NA
Pyrene	ug/L	{ID}	{ID}	140 {(S)}	135	NA	NA	5 U	NA	NA
PCB										
Aroclor-1016	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	NA
Aroclor-1221	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	NA
Total PCBs	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	NA	NA	0.1 U	NA	NA
PCB-Dissolved										
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	0.1 U	NA	NA
Total PCBs (Dissolved)	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	NA	NA	0.1 U	NA	NA
Inorganic										
Antimony	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	NA	NA	NA	NA	NA
Arsenic	ug/L	{ID}	10	{NLV}	{NA}	NA	NA	NA	NA	NA
Barium	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	NA	NA	NA	NA	NA
Beryllium	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	NA	NA	NA	NA	NA
Cadmium	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	NA	NA	NA	NA	NA
Chromium Total	ug/L	- -	170 {(G,X)}	- -	- -	NA	NA	NA	NA	NA
Cobalt	ug/L	{ID}	100	{NLV}	{NA}	NA	NA	NA	NA	NA
Copper	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	NA	NA	NA	NA	NA
Cyanide (total)	ug/L	{ID}	5.2	{NLV}	{NA}	NA	NA	5 U	NA	NA
Lead	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	NA	NA	NA	NA	NA
Manganese	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	NA	NA	NA	NA	NA
Mercury	ug/L	{ID}	0.0013	56 {(S)}	56	NA	NA	**0.2 U**	NA	NA
Nickel	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	NA	NA	NA	NA	NA
Selenium	ug/L	{ID}	5	{NLV}	{NA}	NA	NA	NA	NA	NA
Silver	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	NA	NA	NA	NA	NA
Thallium	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	NA	NA	NA	NA	NA
Vanadium	ug/L	{ID}	27	{NLV}	{NA}	NA	NA	NA	NA	NA
Zinc	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	NA	NA	NA	NA	NA
Inorganic-Dissolved										
Antimony (Dissolved)	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	NA	NA	1.4 U	NA	NA

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-16-24 04/03/03	RFI-16-25 04/03/03	RFI-40-10 02/21/02	RFI-40-10 06/24/02	RFI-40-10R 04/24/03
Arsenic (Dissolved)	ug/L	{ID}	10	{NLV}	{NA}	NA	NA	2.6 U	NA	NA
Barium (Dissolved)	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	NA	NA	35	NA	NA
Beryllium (Dissolved)	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	NA	NA	2 J	NA	NA
Cadmium (Dissolved)	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	NA	NA	0.2 U	NA	NA
Chromium Total (Dissolved)	ug/L	- -	170 {(G,X)}	- -	- -	NA	NA	5.1	NA	NA
Cobalt (Dissolved)	ug/L	{ID}	100	{NLV}	{NA}	NA	NA	0.3	NA	NA
Copper (Dissolved)	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	NA	NA	1.5	NA	NA
Cyanide (dissolved)	ug/L	{ID}	5.2	{NLV}	{NA}	NA	NA	2.1 J	NA	NA
Lead (Dissolved)	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	NA	NA	0.4 U	NA	NA
Manganese (Dissolved)	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	NA	NA	12	NA	NA
Mercury (Dissolved)	ug/L	- -	0.0013	- -	- -	NA	NA	**0.2 U**	NA	NA
Nickel (Dissolved)	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	NA	NA	2.9	NA	NA
Selenium (Dissolved)	ug/L	{ID}	5	{NLV}	{NA}	NA	NA	2 U	NA	NA
Silver (Dissolved)	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	NA	NA	**0.4 UJ**	NA	NA
Thallium (Dissolved)	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	NA	NA	0.2 U	NA	NA
Vanadium (Dissolved)	ug/L	{ID}	27	{NLV}	{NA}	NA	NA	1.7	NA	NA
Zinc (Dissolved)	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	NA	NA	6 U	NA	NA
Field Parameters										
Conductivity Field	mS/cm	- -	- -	- -	- -	NA	NA	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	- -	NA	NA	NA	NA	NA
pH Field	s.u.	- -	- -	- -	- -	NA	NA	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	- -	NA	NA	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	- -	NA	NA	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	- -	NA	NA	NA	NA	NA
Field Parameters-Filtered										
Dissolved Oxygen, Field	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-40-13 09/16/03	RFI-40-13 10/13/03	RFI-40-14R 04/22/03	RFI-40-15 04/22/03
VOC									
1,1,1,2-Tetrachloroethane	ug/L	{ID}	{ID}	96,000	1,100,000	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/L	{ID}	89	1,300,000 {(S)}	1,330,000	1 U [1 U]	NA	1 U [1 U]	1 UJ
1,1,2,2-Tetrachloroethane	ug/L	{ID}	78 {(X)}	77,000	2,970,000	1 U [1 U]	NA	1 U [1 U]	1 UJ
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	32	170,000 {(S)}	170,000	1 U [1 U]	NA	1 U [1 U]	1 UJ
1,1,2-Trichloroethane	ug/L	{NA}	330 {(X)}	110,000	4,420,000	1 U [1 U]	NA	1 U [1 U]	1 UJ
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	1 U [1 U]	NA	1 U [1 U]	1 UJ
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	1 U [1 U]	NA	1 U [1 U]	1 UJ
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA
1,2,3-Trichloropropane	ug/L	{NA}	{NA}	18,000	1,900,000	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	{NA}	99 {(X)}	300,000 {(S)}	300,000	5 U [5 U]	NA	5 U [5 U]	5 UJ
1,2,4-Trimethylbenzene	ug/L	56,000 {(S)}	17	56,000 {(S)}	55,890	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	{NA}	{ID}	1,200 {(S)}	1,230	1 U [1 U]	NA	1 U [1 U]	1 UJ
1,2-Dibromoethane	ug/L	{ID}	5.7 {(X)}	15,000	4,200,000	1 U [1 U]	NA	1 U [1 U]	1 UJ
1,2-Dichlorobenzene	ug/L	{NA}	13	160,000 {(S)}	156,000	1 U [1 U]	NA	1 U [1 U]	1 UJ
1,2-Dichloroethane	ug/L	2,500,000	360 {(X)}	59,000	8,520,000	1 U [1 U]	NA	1 U [1 U]	1 UJ
1,2-Dichloropropane	ug/L	550,000	230 {(X)}	36,000	2,800,000	1 U [1 U]	NA	1 U [1 U]	1 UJ
1,3,5-Trimethylbenzene	ug/L	{ID}	45	61,000 {(S)}	61,150	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/L	{ID}	28	41,000	111,000	1 U [1 U]	NA	1 U [1 U]	1 UJ
1,4-Dichlorobenzene	ug/L	{NA}	17	74,000 {(S)}	73,800	1 U [1 U]	NA	1 U [1 U]	1 UJ
2-Butanone	ug/L	{ID}	2,200	240,000,000 {(S)}	240,000,000	25 U [25 U]	NA	25 U [25 U]	3.7 J
2-Hexanone	ug/L	{NA}	{ID}	8,700,000	16,000,000	50 U [50 U]	NA	50 U [50 U]	50 UJ
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	NA	NA	NA	NA
4-Methyl-2-pentanone	ug/L	{ID}	{ID}	20,000,000 {(S)}	20,000,000	50 U [50 U]	NA	50 U [50 U]	50 UJ
Acetone	ug/L	15,000,000	1,700	1,000,000,000 {(D,S)}	1,000,000,000	25 U [25 U]	NA	25 U [25 U]	15 J
Acrylonitrile	ug/L	6,400,000	2 {(M); 1.2}	190,000	75,000,000	NA	NA	NA	NA
Benzene	ug/L	68,000	200 {(X)}	35,000	1,750,000	1 U [1 U]	NA	1 U [1 U]	**5,500 JD (GSI (2013))**
Bromobenzene	ug/L	{ID}	{NA}	390,000	413,000	NA	NA	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA
Bromodichloromethane	ug/L	{ID}	{ID}	37,000	6,740,000	1 U [1 U]	NA	1 U [1 U]	1 UJ
Bromoform	ug/L	{ID}	{ID}	3,100,000 {(S)}	3,100,000	1 U [1 U]	NA	1 U [1 U]	1 UJ
Bromomethane	ug/L	{ID}	35	9,000	14,500,000	1 U [1 U]	NA	1 U [1 U]	1 UJ
Carbon Disulfide	ug/L	13,000	{ID}	550,000	1,190,000	5 U [5 U]	NA	5 U [5 U]	5 UJ
Carbon Tetrachloride	ug/L	{ID}	45 {(X)}	2,400	793,000	1 U [1 U]	NA	1 U [1 U]	1 UJ
Chlorobenzene	ug/L	160,000	25	470,000 {(S)}	472,000	1 U [1 U]	NA	1 U [1 U]	1 UJ
Chloroethane	ug/L	110,000	1,100 {(X)}	5,700,000 {(S)}	5,740,000	1 U [1 U]	NA	1 U [1 U]	1 UJ
Chloroform	ug/L	{ID}	350	180,000	7,920,000	1 U [1 U]	NA	1 U [1 U]	1 UJ
Chloromethane	ug/L	36,000	{ID}	45,000	6,340,000	1 U [1 U]	NA	1 U [1 U]	1 UJ
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	1 U [1 U]	NA	2.5 [2.7]	1 UJ
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U [1 U]	NA	1 U [1 U]	1 UJ
Cyclohexane	ug/L	- -	- -	- -	- -	11 [12]	NA	5 U [5 U]	100 J
Dibromochloromethane	ug/L	{ID}	{ID}	110,000	2,600,000	1 U [1 U]	NA	1 U [1 U]	1 UJ
Dibromomethane	ug/L	{ID}	{NA}	{ID}	11,000,000	NA	NA	NA	NA
Dichlorodifluoromethane	ug/L	{ID}	{ID}	300,000 {(S)}	300,000	1 U [1 U]	NA	1 U [1 U]	1 UJ

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-40-13 09/16/03	RFI-40-13 10/13/03	RFI-40-14R 04/22/03	RFI-40-15 04/22/03
Diethyl ether	ug/L	650,000	{ID}	61,000,000 {(S)}	61,000,000	NA	NA	NA	NA
Ethylbenzene	ug/L	43,000	18	170,000 {(S)}	169,000	2.4 [2.3]	NA	1 U [1 U]	4.8 J
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	NA	NA	NA	NA
Iodomethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA
Isopropylbenzene	ug/L	29,000	28	56,000 {(S)}	56,000	0.84 J [0.84 J]	NA	5 U [5 U]	1.6 J
m&p-Xylene	ug/L	- -	- -	- -	- -	3 [3.1]	NA	2 U [2 U]	26 J
Methyl acetate	ug/L	- -	- -	- -	- -	5 U [5 U]	NA	5 U [5 U]	5 UJ
Methyl tert-butyl ether	ug/L	{ID}	7,100 {(X)}	47,000,000 {(S)}	46,800,000	5 U [5 U]	NA	5 U [5 U]	0.5 J
Methylcyclohexane	ug/L	- -	- -	- -	- -	9.4 [9.5]	NA	1 U [1 U]	11 J
Methylene Chloride	ug/L	{ID}	1,500 {(X)}	1,400,000	17,000,000	5 U [5 U]	NA	5 U [5 U]	5 UJ
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	NA	NA	NA	NA
n-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
n-Propylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
o-Xylene	ug/L	- -	- -	- -	- -	0.43 J [0.43 J]	NA	1 U [1 U]	3.7 J
p-Isopropyltoluene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA
sec-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
Styrene	ug/L	140,000	80 {(X)}	310,000 {(S)}	310,000	1 U [1 U]	NA	1 U [1 U]	1 UJ
tert-Butylbenzene	ug/L	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA
Tetrachloroethene	ug/L	{ID}	60 {(X)}	170,000	200,000	1 U [1 U]	NA	1 U [1 U]	1 UJ
Tetrahydrofuran	ug/L	60,000	11,000 {(X)}	16,000,000	1,000,000,000	NA	NA	NA	NA
Toluene	ug/L	61,000	270	530,000 {(S)}	526,000	1 U [1 U]	NA	1 U [1 U]	15 J
trans-1,2-Dichloroethene	ug/L	230,000	1,500 {(X)}	200,000	6,300,000	1 U [1 U]	NA	1 U [1 U]	1 UJ
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U [1 U]	NA	1 U [1 U]	1 UJ
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA
Trichloroethene	ug/L	{ID}	200 {(X)}	4,900	1,100,000	1 U [1 U]	NA	2.1 [2.4]	1 UJ
Trichlorofluoromethane	ug/L	{ID}	{NA}	1,100,000 {(S)}	1,100,000	1 U [1 U]	NA	1 U [1 U]	1 UJ
Vinyl Chloride	ug/L	33,000	13 {(X)}	13,000	2,760,000	1 U [1 U]	NA	1 U [0.59 J]	1 UJ
Xylenes (total)	ug/L	70,000	41	190,000 {(S)}	186,000	0.43 J [0.43 J]	NA	1 U [1 U]	3.7 J
SVOC									
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA
2,4,5-Trichlorophenol	ug/L	{ID}	{NA}	{NLV}	1,200,000	NA	5 U	NA	NA
2,4,6-Trichlorophenol	ug/L	{ID}	5	{NLV}	800,000	NA	4 U	NA	NA
2,4-Dichlorophenol	ug/L	{ID}	11	{NLV}	4,500,000	NA	10 U	NA	NA
2,4-Dimethylphenol	ug/L	{ID}	380	{NLV}	7,870,000	NA	5 U	NA	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA
2,4-Dinitrotoluene	ug/L	{ID}	{NA}	{NLV}	270,000	NA	5 U	NA	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA
2-Chloronaphthalene	ug/L	{ID}	{NA}	{ID}	6,740	NA	5 U	NA	NA
2-Chlorophenol	ug/L	{ID}	18	1,100,000	22,000,000	NA	5 U	NA	NA
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	NA	5 U	NA	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA
2-Nitrophenol	ug/L	{ID}	{ID}	{NLV}	2,500,000	NA	5 U	NA	NA
3&4-Methylphenol	ug/L	- -	- -	- -	- -	NA	10 UJ	NA	NA

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-40-13 09/16/03	RFI-40-13 10/13/03	RFI-40-14R 04/22/03	RFI-40-15 04/22/03
3,3'-Dichlorobenzidine	ug/L	{ID}	0.3 {(M); 0.2}	{NLV}	3,110	NA	**20 U**	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA
4-Chloro-3-Methylphenol	ug/L	{ID}	7.4	{NLV}	3,900,000	NA	5 U	NA	NA
4-Chloroaniline	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA
Acenaphthene	ug/L	{ID}	38	4,200 {(S)}	4,240	NA	5 U	NA	NA
Acenaphthylene	ug/L	{ID}	{ID}	3,900 {(S)}	3,930	NA	5 U	NA	NA
Acetophenone	ug/L	{ID}	{ID}	6,100,000 {(S)}	6,100,000	NA	5 U	NA	NA
Anthracene	ug/L	{ID}	{ID}	43 {(S)}	43.4	NA	5 U	NA	NA
Atrazine	ug/L	{ID}	7.3	{NLV}	70,000	NA	5 U	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA
Benzo(a)anthracene	ug/L	{ID}	{ID}	{NLV}	9.4	NA	1 U	NA	NA
Benzo(a)pyrene	ug/L	{ID}	{ID}	{NLV}	1.62	NA	**2 U**	NA	NA
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	{ID}	1.5	NA	**2 U**	NA	NA
Benzo(g,h,i)perylene	ug/L	{ID}	{ID}	{NLV}	0.26	NA	**5 U**	NA	NA
Benzo(k)fluoranthene	ug/L	{ID}	{NA}	{NLV}	0.8	NA	**5 U**	NA	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	1 {(M); 0.79}	210,000	17,200,000	NA	**1.5 U**	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	25	{NLV}	340	NA	5 U	NA	NA
Butylbenzylphthalate	ug/L	{ID}	67 {(X)}	{NLV}	2,690	NA	5 U	NA	NA
Caprolactam	ug/L	{NA}	{NA}	{NLV}	5,250,000,000	NA	10 U	NA	NA
Carbazole	ug/L	{ID}	10 {(M); 4.0}	{NLV}	7,480	NA	10 U	NA	NA
Chrysene	ug/L	{ID}	{ID}	{ID}	1.6	NA	**5 U**	NA	NA
Dibenzo(a,h)anthracene	ug/L	{ID}	{ID}	{NLV}	2.49	NA	2 U	NA	NA
Dibenzofuran	ug/L	{ID}	4	10,000 {(S)}	10,000	NA	4 U	NA	NA
Diethylphthalate	ug/L	{NA}	110	{NLV}	1,080,000	NA	5 U	NA	NA
Dimethylphthalate	ug/L	{NA}	{NA}	{NLV}	4,190,000	NA	5 U	NA	NA
Di-n-Butylphthalate	ug/L	{NA}	9.7	{NLV}	11,200	NA	5 U	NA	NA
Di-n-Octylphthalate	ug/L	{ID}	{ID}	{NLV}	3,000	NA	5 U	NA	NA
Fluoranthene	ug/L	{ID}	1.6	210 {(S)}	206	NA	**2 U**	NA	NA
Fluorene	ug/L	{ID}	12	2,000 {(S)}	1,980	NA	5 U	NA	NA
Hexachlorobenzene	ug/L	{ID}	0.2 {(M); 0.0003}	3,000	6,200	NA	**1 U**	NA	NA
Hexachlorobutadiene	ug/L	{ID}	0.053	3,200 {(S)}	3,230	NA	**5 U**	NA	NA
Hexachlorocyclopentadiene	ug/L	{ID}	{ID}	420	1,800	NA	5 U	NA	NA
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	NA	5 U	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{ID}	{NLV}	0.022	NA	**2 U**	NA	NA
Isophorone	ug/L	{ID}	1,300 {(X)}	{NLV}	12,000,000	NA	5 U	NA	NA
Methylphenols, Total	ug/L	{NA}	30 {(M); 25}	{NLV}	28,000,000	NA	5 U	NA	NA
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	NA	5 U	NA	NA
Nitrobenzene	ug/L	{NA}	180 {(X)}	550,000	2,090,000	NA	2 U	NA	NA
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NA}	{NLV}	9,890,000	NA	5 U	NA	NA

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-40-13 09/16/03	RFI-40-13 10/13/03	RFI-40-14R 04/22/03	RFI-40-15 04/22/03
N-Nitrosodiphenylamine	ug/L	{ID}	{NA}	{NLV}	35,100	NA	5 U	NA	NA
Pentachlorophenol	ug/L	{ID}	2.8 {(G,X)}	{NLV}	1,850,000	NA	**20 U**	NA	NA
Phenanthrene	ug/L	{ID}	2 {(M); 1.4}	1,000 {(S)}	1,000	NA	**5 U**	NA	NA
Phenol	ug/L	{NA}	450	{NLV}	82,800,000	NA	5 U	NA	NA
Pyrene	ug/L	{ID}	{ID}	140 {(S)}	135	NA	5 U	NA	NA
PCB									
Aroclor-1016	ug/L	- -	- -	- -	- -	0.11 U [0.1 U]	NA	NA	NA
Aroclor-1221	ug/L	- -	- -	- -	- -	0.11 U [0.1 U]	NA	NA	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	0.11 U [0.1 U]	NA	NA	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	0.11 U [0.1 U]	NA	NA	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	0.11 U [0.1 U]	NA	NA	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	0.11 U [0.1 U]	NA	NA	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	0.11 U [0.1 U]	NA	NA	NA
Total PCBs	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	0.11 U [0.1 U]	NA	NA	NA
PCB-Dissolved									
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA
Total PCBs (Dissolved)	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	NA	NA	NA	NA
Inorganic									
Antimony	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	1.4 J [1.4 J]	NA	0.53 J	0.42 J
Arsenic	ug/L	{ID}	10	{NLV}	{NA}	8.7 J [8.6 J]	NA	1 U	**11 (GSI (2013))**
Barium	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	71 [70]	NA	91	670
Beryllium	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	**170 J (GSI (2013)) [190 J (GSI (2013))]**	NA	0.4 U	0.4 U
Cadmium	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	2 J [1.9 J]	NA	0.064 J	0.064 J
Chromium Total	ug/L	- -	170 {(G,X)}	- -	- -	6.5 J [5.9 J]	NA	1.7	0.96
Cobalt	ug/L	{ID}	100	{NLV}	{NA}	4 [3.8]	NA	0.7	2.8
Copper	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	16 J [16 J]	NA	3.4	2
Cyanide (total)	ug/L	{ID}	5.2	{NLV}	{NA}	5 U [5 U]	NA	5 U	3.1 J
Lead	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	1.1 [1.1]	NA	0.77	0.53
Manganese	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	200 [200]	NA	150	120
Mercury	ug/L	{ID}	0.0013	56 {(S)}	56	**0.2 U [0.2 U]**	NA	**0.119 J (GSI (2013))**	**0.121 J (GSI (2013))**
Nickel	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	19 J [18 J]	NA	5.5	8.6
Selenium	ug/L	{ID}	5	{NLV}	{NA}	1.6 UJ [1.6 UJ]	NA	1.6 U	1.6 U
Silver	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	**1.3 J (GSI (2013)) [1.2 J (GSI (2013))]**	NA	**0.4 UJ**	**0.4 UJ**
Thallium	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	0.99 [0.94]	NA	0.078 J	0.19 J
Vanadium	ug/L	{ID}	27	{NLV}	{NA}	0.8 U [0.8 U]	NA	2.6	0.99
Zinc	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	31 UJ [27 UJ]	NA	8.4	21
Inorganic-Dissolved									
Antimony (Dissolved)	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	NA	NA	NA	NA

Table. J-1

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	RFI-40-13 09/16/03	RFI-40-13 10/13/03	RFI-40-14R 04/22/03	RFI-40-15 04/22/03
Arsenic (Dissolved)	ug/L	{ID}	10	{NLV}	{NA}	NA	NA	NA	NA
Barium (Dissolved)	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	NA	NA	NA	NA
Beryllium (Dissolved)	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	NA	NA	NA	NA
Cadmium (Dissolved)	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	NA	NA	NA	NA
Chromium Total (Dissolved)	ug/L	- -	170 {(G,X)}	- -	- -	NA	NA	NA	NA
Cobalt (Dissolved)	ug/L	{ID}	100	{NLV}	{NA}	NA	NA	NA	NA
Copper (Dissolved)	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	NA	NA	NA	NA
Cyanide (dissolved)	ug/L	{ID}	5.2	{NLV}	{NA}	NA	NA	NA	NA
Lead (Dissolved)	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	NA	NA	NA	NA
Manganese (Dissolved)	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	NA	NA	NA	NA
Mercury (Dissolved)	ug/L	- -	0.0013	- -	- -	NA	NA	NA	NA
Nickel (Dissolved)	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	NA	NA	NA	NA
Selenium (Dissolved)	ug/L	{ID}	5	{NLV}	{NA}	NA	NA	NA	NA
Silver (Dissolved)	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	NA	NA	NA	NA
Thallium (Dissolved)	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	NA	NA	NA	NA
Vanadium (Dissolved)	ug/L	{ID}	27	{NLV}	{NA}	NA	NA	NA	NA
Zinc (Dissolved)	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	NA	NA	NA	NA
Field Parameters									
Conductivity Field	mS/cm	- -	- -	- -	- -	NA	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	- -	NA	NA	NA	NA
pH Field	s.u.	- -	- -	- -	- -	NA	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	- -	NA	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	- -	NA	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	- -	NA	NA	NA	NA
Field Parameters-Filtered									
Dissolved Oxygen, Field	ug/L	- -	- -	- -	- -	NA	NA	NA	NA

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	40-4R 1 - 3 11/13/01	40-4R 8 - 10 11/13/01	40-4R 13 - 15 11/13/01	40-4R 15 - 17 11/13/01
VOC												
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.037 U [0.036 U]	0.037 U	0.04 U	0.04 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.073 U [0.073 U]	0.074 U	0.081 U	0.081 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.16 U [0.16 U]	0.16 U	0.17 U	0.17 U
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.037 U [0.036 U]	0.037 U	0.04 U	0.04 U
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.037 U [0.036 U]	0.037 U	0.04 U	0.04 U
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.037 U [0.036 U]	0.037 U	0.04 U	0.04 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.16 U [0.16 U]	0.16 U	0.17 U	0.17 U
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	0.16 U [0.16 U]	0.16 U	0.17 U	0.17 U
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	**0.16 U [0.16 U]**	**0.16 U**	**0.17 U**	**0.17 U**
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.073 U [0.073 U]	0.074 U	0.081 U	0.081 U
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.037 U [0.036 U]	0.037 U	0.04 U	0.04 U
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.037 U [0.036 U]	0.037 U	0.04 U	0.04 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.073 U [0.073 U]	0.074 U	0.081 U	0.081 U
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.073 U [0.073 U]	0.074 U	0.081 U	0.081 U
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.26 U [0.039 J]	0.26 U	0.051 J	0.059 J
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.26 U [0.26 U]	0.26 U	0.29 U	0.29 U
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.26 U [0.26 U]	0.26 U	0.29 U	0.29 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.22 J [0.21 J]	0.26 UJ	0.092 J	0.059 J
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.037 U [0.036 U]	0.037 U	0.91	0.83
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.073 U [0.073 U]	0.074 U	0.081 U	0.081 U
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.073 U [0.073 U]	0.074 U	0.081 U	0.081 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.16 U [0.16 U]	0.16 UJ	0.17 UJ	0.17 UJ
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.16 U [0.16 U]	0.16 U	0.17 U	0.17 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.037 U [0.036 U]	0.037 U	0.04 U	0.04 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.037 U [0.036 U]	0.037 U	0.04 U	0.04 U
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.16 U [0.16 U]	0.16 U	0.17 U	0.17 U
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.037 U [0.036 U]	0.037 U	0.04 U	0.04 U
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.16 U [0.16 U]	0.16 U	0.17 U	0.17 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.037 U [0.036 U]	0.037 U	0.04 U	0.04 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.037 U [0.036 U]	0.037 U	0.04 U	0.04 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.16 U [0.16 U]	0.058 J	1.4	1.7
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.073 U [0.073 U]	0.074 U	0.081 U	0.081 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.073 U [0.073 U]	0.074 U	0.081 U	0.081 U
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.037 U [0.036 U]	0.037 U	**3.9 (GSIP (2013))**	**3.8 (GSIP (2013))**
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.16 U [0.16 U]	0.16 U	0.46	0.49
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.073 U [0.073 U]	0.076	11	12 D
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 [0.28]	0.16 UJ	0.17 UJ	0.17 UJ
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.26 U [0.26 U]	0.26 U	0.29 U	0.29 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.16 U [0.16 U]	0.048 J	2.2	2.5
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.16 U [0.16 U]	0.16 U	0.17 U	0.17 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.037 U [0.036 U]	0.037 U	0.54	1.3
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.037 U [0.036 U]	0.037 U	0.04 U	0.04 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.037 U [0.036 U]	0.037 UJ	0.04 UJ	0.04 UJ
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.037 U [0.036 U]	0.037 U	0.034 J	0.4
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.037 U [0.036 U]	0.037 U	0.04 U	0.04 U

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	40-4R 1 - 3 11/13/01	40-4R 8 - 10 11/13/01	40-4R 13 - 15 11/13/01	40-4R 15 - 17 11/13/01
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.037 U [0.036 U]	0.037 U	0.04 U	0.04 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.037 U [0.036 U]	0.037 U	0.04 U	0.04 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.073 U [0.073 U]	0.074 U	0.081 U	0.081 U
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.037 U [0.036 U]	0.037 U	0.04 U	0.04 U
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.037 U [0.036 U]	0.037 U	0.54	**1.3 (GSIP (2013))**
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.69 U [0.7 U]	0.71 U	0.78 U	0.76 U
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.69 U [0.7 U]	0.71 U	0.78 U	0.76 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	1.2
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.69 U [0.7 U]	0.71 U	0.78 U	0.76 U
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.35 UJ [0.35 UJ]	0.36 UJ	0.4 UJ	0.39 UJ
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	0.69 U [0.7 U]	0.71 U	0.78 U	0.76 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.69 U [0.7 U]	0.71 U	0.78 U	0.76 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.69 U [0.7 U]	0.71 U	0.78 U	0.76 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.69 U [0.7 U]	0.71 U	0.78 U	0.76 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.69 U [0.7 U]	0.71 U	0.78 U	0.76 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.69 U [0.7 U]	0.71 U	0.78 U	0.76 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.69 U [0.7 U]	0.71 U	0.78 U	0.76 U
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	**0.18 U [0.18 U]**	**0.18 U**	**0.2 U**	**0.19 U**
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 UJ	0.2 UJ	0.19 U
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	40-4R 1 - 3 11/13/01	40-4R 8 - 10 11/13/01	40-4R 13 - 15 11/13/01	40-4R 15 - 17 11/13/01
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	0.034 U [0.034 U]	0.035 U	0.039 U	0.038 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**0.18 U [0.18 U]**	**0.18 U**	**0.2 U**	**0.19 U**
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 UJ	0.19 U
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.18 U [0.18 U]	0.0766 J	0.119 J	**0.752 (GSIP (2013))**
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.069 U [0.07 U]	0.071 U	0.078 U	0.076 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	0.69 U [0.7 U]	0.71 U	0.78 U	0.76 U
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	0.18 U [0.18 U]	0.18 U	0.0429 J	0.19 U
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.18 U [0.18 U]	0.18 U	0.2 U	0.19 U
Pyridine	mg/kg	37	{NA}	730 {(C)}	100,000	2	9.8	{NA}	NA	NA	NA	NA
Volatile Organics												
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA
2-Ethanoxyethanol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2-Nitropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA
Cyclohexanone	mg/kg	220,000	{NA}	1,000,000 {(C,D)}	29,000,000	32	1,300	{NA}	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA
Ethyl acetate	mg/kg	7,500	{NA}	660,000 {(C)}	94,000,000	70,000 {(C)}	59,000	{NA}	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA
Isobutanol	mg/kg	8,900	{NA}	230,000 {(C)}	44,000,000	430,000 {(C)}	95,000	{NA}	NA	NA	NA	NA

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	40-4R 1 - 3 11/13/01	40-4R 8 - 10 11/13/01	40-4R 13 - 15 11/13/01	40-4R 15 - 17 11/13/01
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA
n-Butanol	mg/kg	8,700	200	95,000 {(C)}	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA
PCB												
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U [0.036 U]	0.037 U	0.041 U	0.04 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U [0.036 U]	0.037 U	0.041 U	0.04 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U [0.036 U]	0.037 U	0.041 U	0.04 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U [0.036 U]	0.037 U	0.041 U	0.04 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U [0.036 U]	0.037 U	0.041 U	0.04 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U [0.036 U]	0.037 U	0.041 U	0.04 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.036 U [0.036 U]	0.037 U	0.041 U	0.04 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.036 U [0.036 U]	0.037 U	0.041 U	0.04 U
TPH												
Methanol	mg/kg	3,100	12,000 {(C)}	360,000 {(C)}	96,000,000	67,000 {(C)}	37,000	{NA}	NA	NA	NA	NA
Inorganic												
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	R [R]	R	R	R
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	3.6 [3.9]	2.5	2.8	**4.7 (GSIP (2013))**
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	8.7 [10]	7.4	46	33
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	0.09 [0.099]	0.074	0.44	0.25
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	0.11 [0.12]	0.12	0.068	0.089
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	5.8 [6.3]	4.9	15	12
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	**2.4 (GSIP (2013)) [2.5 (GSIP (2013))]**	**2.1 (GSIP (2013))**	**5 (GSIP (2013))**	**3.3 (GSIP (2013))**
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	5.9 [5.9]	5.2	9.6	6.7
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	**0.2 U [0.2 U]**	0.04 J	**0.2 U**	**0.2 U**
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	3.9 [4.6]	4.7	6.9	7.1
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	**220 (GSIP (2013)) [180 (GSIP (2013))]**	**150 (GSIP (2013))**	**160 (GSIP (2013))**	**180 (GSIP (2013))**
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	**0.071 U [0.071 U]**	**0.073 U**	0.0281 J	**0.077 U**
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	8.7 [8.1]	7.2	13	9.2
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	0.093 [0.071 U]	0.074 U	0.26 U	0.09 U
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	0.043 J [0.054 J]	0.072 J	**0.64 U**	0.034 J
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	0.11 J [0.18]	0.075 J	0.13 J	0.083 J
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	8.3 [8.4]	6.4	23	15
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	20 J [21 J]	21 J	35 J	**68 J (SDBL (2013))**
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	968,000 [964,000]	943,000	854,000	879,000

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	40-7R 0 - 2 11/20/01	40-7R 2 - 4 11/20/01	40-7R 8 - 10 11/20/01	40-7R 12 - 14 11/20/01
VOC												
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.041 U	0.041 U	0.045 U	0.038 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.082 U	0.081 U	0.09 U	0.076 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.18 U	0.17 U	0.19 U	0.16 U
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.041 U	0.041 U	0.045 U	0.038 U
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.041 U	0.041 U	0.045 U	0.038 U
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.041 U	0.041 U	0.045 U	0.038 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.18 U	0.17 U	0.19 U	0.16 U
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	0.18 U	0.17 U	0.19 U	0.16 U
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	**0.18 U**	**0.17 U**	**0.19 U**	**0.16 U**
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.082 U	0.081 U	0.09 U	0.076 U
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.041 U	0.041 U	0.045 U	0.038 U
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.041 U	0.041 U	0.045 U	0.038 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.082 U	0.081 U	0.09 U	0.076 U
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.082 U	0.081 U	0.09 U	0.076 U
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.11 J	0.062 J	0.066 J	0.069 J
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.29 U	0.29 U	0.32 U	0.27 U
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.29 U	0.29 U	0.32 U	0.27 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.35 J	0.26 J	0.29 J	0.25 J
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.076	0.041 U	0.045 U	0.042 J
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.082 U	0.081 U	0.09 U	0.076 U
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.082 U	0.081 U	0.09 U	0.076 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.18 U	0.17 U	0.19 U	0.16 U
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.18 U	0.17 U	0.19 U	0.16 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.041 U	0.041 U	0.045 U	0.038 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.041 U	0.041 U	0.045 U	0.038 U
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.18 U	0.17 U	0.19 U	0.16 U
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.041 U	0.041 U	0.045 U	0.038 U
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.18 U	0.17 U	0.19 U	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.09	0.041 U	0.045 U	0.038 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.041 U	0.041 U	0.045 U	0.038 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.14 J	0.17 U	0.19 U	2 J
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.082 U	0.081 U	0.09 U	0.076 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.082 U	0.081 U	0.09 U	0.076 U
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.075	0.041 U	0.045 U	**1.6 J (GSIP (2013))**
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.18 U	0.17 U	0.19 U	0.69
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.36	0.03 J	0.09 U	2 J
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.091 J	0.19 U	0.16 U
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.29 U	0.29 U	0.32 U	0.27 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.37	0.036 J	0.19 U	10 JD
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.18 U	0.17 U	0.19 U	0.16 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19	0.041 U	0.045 U	0.052 J
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.041 U	0.041 U	0.045 U	0.038 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.041 U	0.041 U	0.045 U	0.038 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.28	0.041 U	0.045 U	0.048 J
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.041 U	0.041 U	0.045 U	0.038 U

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	40-7R 0 - 2 11/20/01	40-7R 2 - 4 11/20/01	40-7R 8 - 10 11/20/01	40-7R 12 - 14 11/20/01
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.041 U	0.041 U	0.045 U	0.038 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.32	0.041 U	0.045 U	0.038 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.082 U	0.081 U	0.09 U	0.076 U
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.041 U	0.041 U	0.045 U	0.038 U
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.19	0.041 U	0.045 U	0.052 J
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.18 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.18 U
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.18 U
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.18 U
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.18 U
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.18 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	R	0.79 U	0.85 U	0.72 U
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.77 U	0.79 U	0.85 U	0.72 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.18 U
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.19 U	0.2 U	0.21 U	0.18 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	0.19 U	0.2 U	0.21 U	0.18 U
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.256	0.2 U	0.21 U	1.94
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.18 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.77 U	0.79 U	0.85 U	0.72 U
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.18 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.39 UJ	0.4 UJ	0.43 UJ	0.37 UJ
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	0.77 U	0.79 U	0.85 U	0.72 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.77 U	0.79 U	0.85 U	0.72 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	R	0.79 U	0.85 U	0.72 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.18 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.18 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.77 U	0.79 U	0.85 U	0.72 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.77 U	0.79 U	0.85 U	0.72 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.77 U	0.79 U	0.85 U	0.72 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.77 U	0.79 U	0.85 U	0.72 U
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	0.045 J	0.2 U	0.21 U	0.0601 J
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.0961 J	0.2 U	0.21 U	0.18 U
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.19 U	0.2 U	0.21 U	0.18 U
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.327	0.2 U	0.21 U	0.0496 J
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	**0.19 UJ**	**0.2 UJ**	**0.21 UJ**	**0.18 UJ**
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.18 U
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.839	0.2 U	0.21 U	0.0363 J
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	0.759 J	0.2 U	0.21 U	0.0705 J
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	0.867 J	0.2 U	0.21 U	0.18 U
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	0.442 J	0.2 U	0.21 U	0.18 U
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	1.02 J	0.2 U	0.21 U	0.18 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.18 U

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	40-7R 0 - 2 11/20/01	40-7R 2 - 4 11/20/01	40-7R 8 - 10 11/20/01	40-7R 12 - 14 11/20/01
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	0.038 U	0.039 U	0.042 U	0.036 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.0832 J	0.2 U	0.21 U	0.18 U
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	1.72	0.2 U	0.21 U	0.18 U
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.18 U
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	0.159 J	0.2 U	0.21 U	0.18 U
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	0.876	0.2 U	0.21 U	0.0917 J
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	0.19 UJ	0.2 U	0.21 U	0.18 U
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	0.1 J	0.2 U	0.21 U	0.18 U
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.18 U
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.18 U
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.0606 J	0.2 U	0.21 U	0.18 U
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.19 UJ	0.2 U	0.21 U	0.18 U
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	1.63	0.2 U	0.21 U	0.18 U
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.074 J	0.2 U	0.21 U	0.0813 J
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	0.19 U	0.2 U	0.21 U	0.18 U
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**0.19 U**	**0.2 U**	**0.21 U**	**0.18 U**
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	R	0.2 U	0.21 U	0.18 U
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.19 U	0.2 U	0.21 U	0.18 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.366 J	0.2 U	0.21 U	0.18 U
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.18 U
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.18 U
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.158 J	0.2 U	0.21 U	**0.984 (GSIP (2013))**
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.077 U	0.079 U	0.085 U	0.072 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.18 U
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.18 U
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	0.77 U	0.79 U	0.85 U	0.72 U
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	0.999	0.2 U	0.21 U	0.485
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.18 U
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	2.35	0.2 U	0.21 U	0.162 J
Pyridine	mg/kg	37	{NA}	730 {(C)}	100,000	2	9.8	{NA}	NA	NA	NA	NA
Volatile Organics												
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA
2-Ethanoxyethanol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2-Nitropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA
Cyclohexanone	mg/kg	220,000	{NA}	1,000,000 {(C,D)}	29,000,000	32	1,300	{NA}	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA
Ethyl acetate	mg/kg	7,500	{NA}	660,000 {(C)}	94,000,000	70,000 {(C)}	59,000	{NA}	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA
Isobutanol	mg/kg	8,900	{NA}	230,000 {(C)}	44,000,000	430,000 {(C)}	95,000	{NA}	NA	NA	NA	NA

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	40-7R 0 - 2 11/20/01	40-7R 2 - 4 11/20/01	40-7R 8 - 10 11/20/01	40-7R 12 - 14 11/20/01
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA
n-Butanol	mg/kg	8,700	200	95,000 {(C)}	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA
PCB												
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.041 U	0.044 U	0.038 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.041 U	0.044 U	0.038 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.041 U	0.044 U	0.038 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.041 U	0.044 U	0.038 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.041 U	0.044 U	0.038 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.041 U	0.044 U	0.038 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.22 J	0.041 U	0.044 U	0.038 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.22 J	0.041 U	0.044 U	0.038 U
TPH												
Methanol	mg/kg	3,100	12,000 {(C)}	360,000 {(C)}	96,000,000	67,000 {(C)}	37,000	{NA}	NA	NA	NA	NA
Inorganic												
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	R	R	R	R
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	**4.7 (GSIP (2013))**	2.7	**9.3 (GSIP (2013),SDBL (2013))**	2.4
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	**130 J (SDBL (2013))**	17 J	**90 J (SDBL (2013))**	11 J
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	0.86	0.18	0.75	0.11
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	0.62	0.076	0.11	0.059
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	**42 J (SDBL (2013))**	7.3 J	**23 J (SDBL (2013))**	4.5 J
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	**5 (GSIP (2013))**	**3.9 (GSIP (2013))**	**11 (GSIP (2013),SDBL (2013))**	**2.4 (GSIP (2013))**
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	**81 (SDBL (2013))**	4.2	21	5.5
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	**0.5 (GSIP (2013),SDBL (2013))**	**0.2 U**	**0.13 J (GSIP (2013))**	**0.2 U**
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**140 J (SDBL (2013))**	6.4 J	13 J	3.2 J
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	**270 (GSIP (2013))**	92	**240 (GSIP (2013))**	**140 (GSIP (2013))**
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	**0.0642 J (GSIP (2013))**	0.0328 J	**0.0603 J (GSIP (2013))**	0.0282 J
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	**29 (SDBL (2013))**	7.2	**30 (SDBL (2013))**	6.6
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	**0.51 (GSIP (2013),SDBL (2013))**	0.4 J	0.11 U	0.3
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	**0.17 J (GSIP (2013))**	0.087 J	**0.15 J (GSIP (2013))**	0.1 J
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	0.1 J	0.067 J	0.24 J	0.075 J
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	13	13	30	6.4
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	**240 (SDBL (2013))**	28	**70 (SDBL (2013))**	21
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	873,000	849,000	791,000	926,000

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-16-04 0.7 - 2 05/15/01	RFI-16-04 4 - 6 05/15/01	RFI-16-07 0.5 - 2.5 06/06/01	RFI-16-07 4.5 - 6.5 06/06/01
VOC												
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.036 U	0.038 U	0.037 U	0.038 U [0.039 U]
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.073 U	0.075 U	0.075 U	0.077 U [0.078 U]
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.16 U	0.16 U	0.16 U	0.16 U [0.17 U]
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.036 U	0.038 U	0.037 U	0.038 U [0.039 U]
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.036 U	0.038 U	0.037 U	0.038 U [0.039 U]
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.036 U	0.038 U	0.037 U	0.038 U [0.039 U]
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.16 UJ	0.16 UJ	0.16 U	0.16 UJ [0.17 U]
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	0.073 U	0.075 U	0.075 U	0.077 U [0.078 U]
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	0.16 U	0.16 U	0.16 U	0.16 UJ [0.17 U]
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	**0.16 U**	**0.16 U**	**0.16 U**	**0.16 U [0.17 U]**
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.073 U	0.075 U	0.075 U	0.077 U [0.078 U]
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.036 U	0.038 U	0.037 U	0.038 U [0.039 U]
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.036 U	0.038 U	0.037 U	0.038 U [0.039 U]
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	0.073 U	0.075 U	0.075 U	0.077 U [0.078 U]
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.073 U	0.075 U	0.075 U	0.077 U [0.078 U]
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.073 U	0.075 U	0.075 U	0.077 U [0.078 U]
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.26 U	0.27 U	0.27 U	0.27 UJ [0.28 U]
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.26 U	0.27 U	0.27 U	0.27 U [0.28 U]
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.26 U	0.27 U	0.27 U	0.27 U [0.28 U]
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.26 U	0.27 U	0.27 U	0.27 UJ [0.28 U]
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.036 U	0.023 J	0.037 U	0.038 U [0.039 U]
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.073 U	0.075 U	0.075 U	0.077 U [0.078 U]
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.073 U	0.075 U	0.075 U	0.077 U [0.078 U]
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.16 U	0.16 U	0.16 U	0.16 U [0.17 U]
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.16 U	0.16 U	0.16 U	0.16 U [0.17 U]
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.036 U	0.038 U	0.037 U	0.038 U [0.039 U]
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.036 U	0.038 U	0.037 U	0.038 U [0.039 U]
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.16 U	0.16 U	0.16 U	0.16 U [0.17 U]
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.036 U	0.038 U	0.037 U	0.038 U [0.039 U]
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.16 U	0.16 U	0.16 U	0.16 U [0.17 U]
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.036 UJ	0.038 UJ	0.037 U	0.038 U [0.039 U]
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.036 U	0.038 U	0.037 U	0.038 U [0.039 U]
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.16 UJ	0.16 UJ	0.16 U	0.16 U [0.17 U]
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.073 U	0.075 U	0.075 U	0.077 U [0.078 U]
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.073 U	0.075 U	0.075 U	0.077 U [0.078 U]
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.036 U	0.038 U	0.037 U	0.038 U [0.039 U]
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.16 U	0.16 U	0.16 U	0.16 U [0.17 U]
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.073 U	0.075 U	0.075 U	0.077 U [0.078 U]
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.09 J	0.39	0.16 U	0.16 UJ [0.17 U]
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.26 U	0.27 U	0.27 U	0.27 U [0.28 U]
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.16 U	0.16 U	0.16 U	0.16 U [0.17 U]
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.16 U	0.16 U	0.045 J	0.12 J [0.05 J]
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.036 U	0.013 J	0.037 U	0.038 U [0.039 U]
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.036 U	0.038 U	0.037 U	0.038 U [0.039 U]
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.036 U	0.038 U	0.037 U	0.038 U [0.039 U]
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.036 U	0.039 U	0.037 U	0.038 U [0.039 U]
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.036 U	0.038 U	0.037 U	0.038 U [0.039 U]

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-16-04 0.7 - 2 05/15/01	RFI-16-04 4 - 6 05/15/01	RFI-16-07 0.5 - 2.5 06/06/01	RFI-16-07 4.5 - 6.5 06/06/01
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.036 U	0.038 U	0.037 U	0.038 U [0.039 U]
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.036 U	0.04	0.037 U	0.038 U [0.039 U]
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.073 U	0.075 U	0.075 U	0.077 U [0.078 U]
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.036 U	0.038 U	0.037 U	0.038 U [0.039 U]
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.036 U	0.013 J	0.037 U	0.038 U [0.039 U]
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.18 UJ	0.19 UJ [0.19 UJ]
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.73 U	0.7 U	0.74 U [0.74 U]
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.7 U	0.73 U	0.7 U	0.74 U [0.74 U]
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.73 U	0.7 U	0.74 U [0.74 U]
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.36 U	0.37 U	0.35 U	0.38 U [0.38 U]
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	0.7 U	0.73 U	0.7 U	0.74 U [0.74 U]
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.73 U	0.7 U	0.74 U [0.74 U]
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.7 U	0.73 U	0.7 U	0.74 U [0.74 U]
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.73 U	0.7 U	0.74 U [0.74 U]
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.73 U	0.7 U	0.74 U [0.74 U]
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.73 U	0.7 U	0.74 U [0.74 U]
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.73 U	0.7 U	0.74 U [0.74 U]
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	0.05 J	0.19 U	0.18 U	0.19 U [0.19 U]
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.156 J	0.0632 J	0.18 U	0.19 U [0.19 U]
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	**0.18 U**	**0.19 U**	**0.18 U**	**0.19 U [0.19 U]**
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.18 UJ	0.19 U [0.19 UJ]
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.651	0.276	0.059 J	0.19 U [0.19 U]
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	0.811	0.327 J	0.0593 J	0.19 U [0.19 U]
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	0.761	0.324 J	0.0555 J	0.19 U [0.19 U]
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	0.911 J	0.292 J	0.0829 J	0.19 U [0.19 U]
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	0.58	0.312 J	0.0486 J	0.19 U [0.19 U]
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-16-04 0.7 - 2 05/15/01	RFI-16-04 4 - 6 05/15/01	RFI-16-07 0.5 - 2.5 06/06/01	RFI-16-07 4.5 - 6.5 06/06/01
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	0.035 U	0.036 U	0.034 UJ	0.037 U [0.037 UJ]
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.164 J	0.19 U [0.19 U]
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.164 J	0.19 U [0.0699 J]
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	0.132 J	0.0516 J	0.18 U	0.19 U [0.19 U]
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	0.771	0.324	0.0652 J	0.19 U [0.19 U]
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	0.357 J	0.19 UJ	0.18 UJ	0.19 U [0.19 U]
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 UJ	0.18 UJ	0.19 U [0.19 U]
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	1.14	0.564	0.113 J	0.0569 J [0.0407 J]
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.0514 J	0.19 U	0.18 U	0.19 U [0.19 U]
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**0.18 U**	**0.19 U**	**0.18 U**	**0.19 U [0.19 U]**
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.736 J	0.235 J	0.0604 J	0.19 U [0.19 U]
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.18 U	0.19 U	0.18 UJ	0.19 UJ [0.19 UJ]
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.07 U	0.073 U	0.07 U	0.074 U [0.074 U]
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 UJ	0.19 U [0.19 UJ]
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	0.7 U	0.73 U	0.7 U	0.74 U [0.74 U]
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	0.669	0.334	0.0708 J	0.0695 J [0.0599 J]
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.19 U	0.18 U	0.19 U [0.19 U]
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	1.52	0.714	0.142 J	0.044 J [0.19 U]
Pyridine	mg/kg	37	{NA}	730 {(C)}	100,000	2	9.8	{NA}	NA	NA	NA	NA
Volatile Organics												
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA
2-Ethanoxyethanol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2-Nitropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA
Cyclohexanone	mg/kg	220,000	{NA}	1,000,000 {(C,D)}	29,000,000	32	1,300	{NA}	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA
Ethyl acetate	mg/kg	7,500	{NA}	660,000 {(C)}	94,000,000	70,000 {(C)}	59,000	{NA}	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA
Isobutanol	mg/kg	8,900	{NA}	230,000 {(C)}	44,000,000	430,000 {(C)}	95,000	{NA}	NA	NA	NA	NA

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-16-04 0.7 - 2 05/15/01	RFI-16-04 4 - 6 05/15/01	RFI-16-07 0.5 - 2.5 06/06/01	RFI-16-07 4.5 - 6.5 06/06/01
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA
n-Butanol	mg/kg	8,700	200	95,000 {(C)}	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA
PCB												
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.038 U	0.036 U	0.039 U [0.039 U]
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.038 U	0.036 U	0.039 U [0.039 U]
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.038 U	0.036 U	0.039 U [0.039 U]
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.038 U	0.036 U	0.039 U [0.039 U]
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.038 U	0.036 U	0.039 U [0.039 U]
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.097	0.88	0.036 U	0.039 U [0.039 U]
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.25	0.036 U	0.039 U [0.039 U]
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.097	1.13	0.036 U	0.039 U [0.039 U]
TPH												
Methanol	mg/kg	3,100	12,000 {(C)}	360,000 {(C)}	96,000,000	67,000 {(C)}	37,000	{NA}	NA	NA	NA	NA
Inorganic												
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	0.38 U	0.31 U	R	R [R]
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	3.5	2.4	3.1	2.5 [2.1]
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	22 J	29 J	19	8.8 [7.2]
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	0.17 J	0.21	0.12 J	0.097 J [0.086 J]
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	0.29 J	0.24 J	0.23	0.036 [0.033 J]
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	7.7 J	6 J	**30 (SDBL (2013))**	**43 (SDBL (2013)) [38 (SDBL (2013))]**
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	**2.6 (GSIP (2013))**	2	**2.7 (GSIP (2013))**	**2.3 (GSIP (2013)) [2.5 (GSIP (2013))]**
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	10	14	22	27 [27]
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	**0.2 U**	**0.2 U**	0.065 J	0.059 J [0.083 J]
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	12 J	**22 J (SDBL (2013))**	**31 (SDBL (2013))**	4.8 [3.8]
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	**180 J (GSIP (2013))**	**140 J (GSIP (2013))**	**270 J (GSIP (2013))**	**370 J (GSIP (2013)) [420 J (GSIP (2013))]**
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	0.0268 J	0.0445 J	**0.073 U**	**0.078 U [0.076 U]**
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	8.1	8	**21 (SDBL (2013))**	**28 (SDBL (2013)) [43 (SDBL (2013))]**
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	**1.5 U**	**1.2 U**	**1.4 U**	**1.5 U [1.6 U]**
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	**0.17 U**	**0.14 U**	**0.24 (GSIP (2013))**	**0.053 J [0.43 (GSIP (2013))]**
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	0.24 U	0.2 U	0.22 U	0.24 U [0.25 U]
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	9.9 J	8.1 J	6.8	4 [3.4]
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	30 J	**54 J (SDBL (2013))**	26	8.2 J [7.1]
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	952,000	917,000	960,000	901,000 [901,000]

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-16-08 1.5 - 3.5 06/07/01	RFI-16-08 7.5 - 9.5 06/07/01	RFI-16-09 0.7 - 2.7 06/07/01
VOC											
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.039 U	0.043 U	0.038 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.078 U	0.085 U	0.076 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.17 U	0.18 U	0.16 U
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.039 U	0.043 U	0.038 U
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.039 U	0.043 U	0.038 U
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.039 U	0.043 U	0.038 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.17 U	0.18 UJ	0.16 U
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	**0.65 (GSIP (2013))**	0.085 U	0.076 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	0.17 U	0.18 UJ	0.16 U
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	**0.17 U**	**0.18 U**	**0.16 U**
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.078 U	0.085 U	0.076 U
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.039 U	0.043 U	0.038 U
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.039 U	0.043 U	0.038 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	0.47	0.085 U	0.076 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.078 U	0.085 U	0.076 U
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.078 U	0.085 U	0.076 U
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.28 UJ	0.3 UJ	0.27 UJ
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.28 U	0.3 U	0.27 U
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.28 U	0.3 U	0.27 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.28 U	0.3 U	0.27 U
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.86	0.043 U	0.038 U
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.078 U	0.085 U	0.076 U
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.078 U	0.085 U	0.076 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.17 U	0.18 U	0.16 U
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.17 U	0.18 U	0.16 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.039 U	0.043 U	0.038 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.039 U	0.043 U	0.038 U
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.17 UJ	0.18 U	0.16 U
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.039 U	0.043 U	0.038 UJ
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.17 U	0.18 U	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.039 U	0.043 U	0.038 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.039 U	0.043 U	0.038 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.18 U	0.16 U
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.078 U	0.085 U	0.076 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.078 U	0.085 U	0.076 U
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	**0.7 (GSIP (2013))**	0.043 U	0.038 U
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.17 U	0.18 U	0.16 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	2.2	0.083 J	0.076 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 UJ	0.18 UJ	0.16 UJ
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.28 U	0.3 U	0.27 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.083 J	0.18 U	0.16 U
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.038 J	0.17 J	0.045 J
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.86	0.035 J	0.038 U
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.039 U	0.043 U	0.038 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.039 U	0.043 U	0.038 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	1.2	0.044 J	0.038 U
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.039 U	0.043 U	0.038 U

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-16-08 1.5 - 3.5 06/07/01	RFI-16-08 7.5 - 9.5 06/07/01	RFI-16-09 0.7 - 2.7 06/07/01
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.039 U	0.043 U	0.038 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.039 U	0.043 U	0.038 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.078 U	0.085 U	0.076 U
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.039 U	0.043 U	0.038 U
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	**0.86 (GSIP (2013))**	0.035 J	0.038 U
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.18 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 UJ	0.2 UJ	0.18 UJ
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.18 U
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.18 U
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.18 U
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.18 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.76 U	0.8 U	0.72 U
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.76 U	0.8 U	0.72 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.18 U
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.19 U	0.2 U	0.18 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	0.19 U	0.2 U	0.18 U
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.19 U	0.2 U	0.18 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.18 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.76 U	0.8 U	0.72 U
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.18 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.39 U	0.41 U	0.36 U
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	0.76 U	0.8 U	0.72 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.76 U	0.8 U	0.72 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.76 U	0.8 U	0.72 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.18 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.18 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.76 U	0.8 U	0.72 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.76 U	0.8 U	0.72 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.76 U	0.8 U	0.72 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.76 U	0.8 U	0.72 U
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	0.19 U	0.2 U	0.18 U
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.19 U	0.2 U	0.18 U
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.262	0.2 U	0.18 U
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.19 U	0.2 U	0.18 U
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	**0.19 U**	**0.2 U**	**0.18 U**
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 UJ	0.18 UJ
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.045 J	0.2 U	0.18 U
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	0.0382 J	0.2 UJ	0.18 U
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	0.19 UJ	0.2 UJ	0.18 U
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	0.0476 J	0.2 UJ	0.18 U
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	0.19 UJ	0.2 UJ	0.18 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.18 U

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-16-08 1.5 - 3.5 06/07/01	RFI-16-08 7.5 - 9.5 06/07/01	RFI-16-09 0.7 - 2.7 06/07/01
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	0.037 UJ	0.04 UJ	0.035 UJ
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.42 U	0.2 UJ	0.18 UJ
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.18 U
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.18 U
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.18 U
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	0.0503 J	0.2 U	0.18 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	0.19 UJ	0.2 UJ	0.18 U
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	0.19 U	0.2 U	0.18 U
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.18 U
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.18 U
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.18 U
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.19 UJ	0.2 UJ	0.18 U
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.0533 J	0.2 U	0.18 U
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.19 U	0.2 U	0.18 U
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	0.19 U	0.2 U	0.18 U
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**0.19 U**	**0.2 U**	**0.18 U**
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	0.19 U	0.2 U	0.18 U
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.19 U	0.2 U	0.18 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.19 UJ	0.2 UJ	0.18 U
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.18 U
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.18 U
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.119 J	0.2 U	0.18 UJ
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.076 U	0.0216 J	0.072 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 UJ	0.18 UJ
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.18 U
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	0.76 U	0.8 U	0.72 U
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	0.146 J	0.2 U	0.18 U
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.18 U
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.0798 J	0.2 U	0.18 U
Pyridine	mg/kg	37	{NA}	730 {(C)}	100,000	2	9.8	{NA}	NA	NA	NA
Volatile Organics											
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA
2-Ethanoxyethanol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
2-Nitropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA
Cyclohexanone	mg/kg	220,000	{NA}	1,000,000 {(C,D)}	29,000,000	32	1,300	{NA}	NA	NA	NA
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA
Ethyl acetate	mg/kg	7,500	{NA}	660,000 {(C)}	94,000,000	70,000 {(C)}	59,000	{NA}	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA
Isobutanol	mg/kg	8,900	{NA}	230,000 {(C)}	44,000,000	430,000 {(C)}	95,000	{NA}	NA	NA	NA

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-16-08 1.5 - 3.5 06/07/01	RFI-16-08 7.5 - 9.5 06/07/01	RFI-16-09 0.7 - 2.7 06/07/01
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA
n-Butanol	mg/kg	8,700	200	95,000 {(C)}	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA
PCB											
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.042 U	0.037 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.042 U	0.037 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.042 U	0.037 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.042 U	0.037 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.042 U	0.037 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.042 U	0.037 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.042 U	0.037 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.04 U	0.042 U	0.037 U
TPH											
Methanol	mg/kg	3,100	12,000 {(C)}	360,000 {(C)}	96,000,000	67,000 {(C)}	37,000	{NA}	NA	NA	NA
Inorganic											
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	R	R	R
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	**8.2 (GSIP (2013),SDBL (2013))**	**10 (GSIP (2013),SDBL (2013))**	3.4
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	48	63	8.3
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	1.1	0.71	0.11 J
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	0.17	0.23	0.15
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	8	**21 (SDBL (2013))**	4.8
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	**5.1 (GSIP (2013))**	**13 (GSIP (2013),SDBL (2013))**	**2.4 (GSIP (2013))**
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	24	23	7.6
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	0.019 J	0.0077 J	**0.2 U**
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**25 (SDBL (2013))**	17	4.8
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	**500 J (GSIP (2013),SDBL (2013))**	**770 J (GSIP (2013),SDBL (2013))**	**220 J (GSIP (2013))**
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	0.0273 J	0.0367 J	**0.071 U**
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	17	**32 (SDBL (2013))**	7.2
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	**1.3 U**	**1.4 U**	**1.5 U**
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	**2.3 (GSIP (2013),SDBL (2013))**	**0.14 J (GSIP (2013))**	**1.5 (GSIP (2013),SDBL (2013))**
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	0.13 J	0.25	0.21 J
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	15	27	5.8
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	**60 (SDBL (2013))**	**63 (SDBL (2013))**	25
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	881,000	834,000	936,000

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-16-09 4.7 - 6.6 06/07/01	RFI-16-10 1.2 - 3.2 06/08/01	RFI-16-10 3.2 - 5.2 06/08/01	RFI-16-11 1 - 3 06/12/01
VOC												
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.037 U [0.037 U]	0.037 U	0.037 U	0.038 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.075 U [0.075 U]	0.074 U	0.074 U	0.076 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.16 U [0.16 U]	0.16 U	0.16 U	0.16 U
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.037 U [0.037 U]	0.037 U	0.037 U	0.038 U
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.037 U [0.037 U]	0.037 U	0.037 U	0.038 U
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.037 U [0.037 U]	0.037 U	0.037 U	0.038 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.16 U [0.16 U]	0.16 U	0.16 U	0.16 U
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	0.075 U [0.075 U]	0.074 U	0.074 U	0.076 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	0.16 U [0.16 U]	0.16 U	0.16 U	0.16 U
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	**0.16 U [0.16 U]**	**0.16 U**	**0.16 U**	**0.16 U**
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.075 U [0.075 U]	0.074 U	0.074 U	0.076 U
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.037 U [0.037 U]	0.037 U	0.037 U	0.038 U
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.037 U [0.037 U]	0.037 U	0.037 U	0.038 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	0.075 U [0.075 U]	0.074 U	0.074 U	0.076 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.075 U [0.075 U]	0.074 U	0.074 U	0.076 U
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.075 U [0.075 U]	0.074 U	0.074 U	0.076 U
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.27 U [0.27 UJ]	0.26 U	0.26 U	0.27 U
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.27 U [0.27 U]	0.26 U	0.26 U	0.27 U
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.27 U [0.27 U]	0.26 U	0.26 U	0.27 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.27 U [0.27 U]	0.26 U	0.26 U	0.27 U
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.037 U [0.037 U]	0.037 U	0.037 U	0.038 U
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.075 U [0.075 U]	0.074 U	0.074 U	0.076 U
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.075 U [0.075 U]	0.074 U	0.074 U	0.076 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.16 U [0.16 U]	0.16 U	0.16 U	0.16 U
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.16 U [0.16 U]	0.16 U	0.16 U	0.16 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.037 U [0.037 U]	0.037 U	0.037 U	0.038 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.037 U [0.037 U]	0.037 U	0.037 U	0.038 U
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.16 U [0.16 UJ]	0.16 U	0.16 U	0.16 U
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.037 U [0.037 U]	0.037 U	0.037 U	0.038 U
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.16 U [0.16 U]	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.037 U [0.037 U]	0.037 U	0.037 U	0.038 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.037 U [0.037 U]	0.037 U	0.037 U	0.038 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.16 U [0.16 U]	0.16 U	0.16 U	0.16 U
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.075 U [0.075 U]	0.074 U	0.074 U	0.076 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.075 U [0.075 U]	0.074 U	0.074 U	0.076 U
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.037 U [0.037 U]	0.037 U	0.037 U	0.038 U
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.16 U [0.16 U]	0.16 U	0.16 U	0.16 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.075 U [0.075 U]	0.074 U	0.074 U	0.076 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.16 U [0.16 UJ]	0.08 J	0.06 J	0.16 U
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.27 U [0.27 U]	0.26 U	0.26 U	0.27 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.16 U [0.16 U]	0.16 U	0.16 U	0.055 J
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.034 J [0.031 J]	0.16 U	0.16 U	0.16 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.037 U [0.037 U]	0.037 U	0.037 U	0.038 U
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.037 U [0.037 U]	0.037 U	0.037 U	0.038 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.037 U [0.037 U]	0.037 U	0.037 U	0.038 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.037 U [0.037 U]	0.037 U	0.037 U	0.038 U
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.037 U [0.037 U]	0.037 U	0.037 U	0.038 U

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-16-09 4.7 - 6.6 06/07/01	RFI-16-10 1.2 - 3.2 06/08/01	RFI-16-10 3.2 - 5.2 06/08/01	RFI-16-11 1 - 3 06/12/01
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.037 U [0.037 U]	0.037 U	0.037 U	0.038 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.037 U [0.037 U]	0.037 U	0.037 U	0.038 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.075 U [0.075 U]	0.074 U	0.074 U	0.076 U
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.037 U [0.037 U]	0.037 U	0.037 U	0.038 U
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.037 U [0.037 U]	0.037 U	0.037 U	0.038 U
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U [0.18 U]	0.18 U	0.18 U	1.8 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 UJ [0.18 UJ]	0.18 U	0.18 U	1.8 U
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	1.8 U
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	**1.8 U**
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	**1.8 U**
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	1.8 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U [0.72 U]	0.72 U	0.71 U	7.1 U
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.72 U [0.72 U]	0.72 U	0.71 U	7.1 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U [0.18 U]	0.18 U	0.18 U	1.8 U
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	1.8 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	**1.8 U**
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	1.8 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U [0.18 U]	0.18 U	0.18 U	1.8 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U [0.72 U]	0.72 U	0.71 U	7.1 U
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	1.8 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.37 U [0.36 U]	0.36 U	0.36 U	3.6 U
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	0.72 U [0.72 U]	0.72 U	0.71 U	**7.1 U**
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U [0.72 U]	0.72 U	0.71 U	7.1 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.72 U [0.72 U]	0.72 U	0.71 U	7.1 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U [0.18 U]	0.18 U	0.18 U	1.8 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	**1.8 U**
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U [0.72 U]	0.72 U	0.71 U	7.1 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U [0.72 U]	0.72 U	0.71 U	7.1 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U [0.72 U]	0.72 U	0.71 U	7.1 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U [0.72 U]	0.72 U	0.71 U	7.1 U
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	0.999 J
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	1.8 U
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	1.8 U
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	3.48
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	**0.18 U [0.18 U]**	**0.18 U**	**0.18 U**	**1.8 U**
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 UJ [0.18 UJ]	0.18 U	0.18 U	1.8 U
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	5.92
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	5.18
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	0.18 U [0.18 U]	0.18 U	0.124 J	5.53
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	2.08
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	5.29
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U [0.18 U]	0.18 U	0.18 U	1.8 U

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-16-09 4.7 - 6.6 06/07/01	RFI-16-10 1.2 - 3.2 06/08/01	RFI-16-10 3.2 - 5.2 06/08/01	RFI-16-11 1 - 3 06/12/01
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	0.036 UJ [0.035 UJ]	0.035 U	0.035 U	**0.35 U**
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.194 U	1.8 U
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	1.8 U
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	1.8 U
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	**1.68 J (GSIP (2013))**
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	6.4
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	0.805 J
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	0.678 J
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	1.8 U
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	1.8 U
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	1.8 U
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	1.8 U
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	**15.2 (GSIP (2013))**
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	1.17 J
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	**1.8 U**
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**0.18 U [0.18 U]**	**0.18 U**	**0.18 U**	**1.8 U**
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	1.8 U
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	1.8 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	2.24
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	1.8 U
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	**1.8 U**
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.18 UJ [0.18 UJ]	0.18 U	0.18 U	**1.8 U**
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.072 U [0.072 U]	0.072 U	0.071 U	0.71 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	1.8 U
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	1.8 U
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	0.72 U [0.72 U]	0.72 U	0.71 U	7.1 U
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	**10.9 (GSIP (2013))**
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	1.8 U
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.18 U [0.18 U]	0.18 U	0.18 U	13.2
Pyridine	mg/kg	37	{NA}	730 {(C)}	100,000	2	9.8	{NA}	NA	NA	NA	NA
Volatile Organics												
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA
2-Ethanoxyethanol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2-Nitropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA
Cyclohexanone	mg/kg	220,000	{NA}	1,000,000 {(C,D)}	29,000,000	32	1,300	{NA}	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA
Ethyl acetate	mg/kg	7,500	{NA}	660,000 {(C)}	94,000,000	70,000 {(C)}	59,000	{NA}	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA
Isobutanol	mg/kg	8,900	{NA}	230,000 {(C)}	44,000,000	430,000 {(C)}	95,000	{NA}	NA	NA	NA	NA

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-16-09 4.7 - 6.6 06/07/01	RFI-16-10 1.2 - 3.2 06/08/01	RFI-16-10 3.2 - 5.2 06/08/01	RFI-16-11 1 - 3 06/12/01
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA
n-Butanol	mg/kg	8,700	200	95,000 {(C)}	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA
PCB												
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.038 U [0.037 U]	0.037 U	0.037 U	0.037 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.038 U [0.037 U]	0.037 U	0.037 U	0.037 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.038 U [0.037 U]	0.037 U	0.037 U	0.037 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.038 U [0.037 U]	0.037 U	0.037 U	0.037 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.038 U [0.037 U]	0.037 U	0.037 U	0.037 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.038 U [0.037 U]	0.037 U	0.037 U	0.037 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.038 U [0.037 U]	0.037 U	0.037 U	0.037 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.038 U [0.037 U]	0.037 U	0.037 U	0.037 U
TPH												
Methanol	mg/kg	3,100	12,000 {(C)}	360,000 {(C)}	96,000,000	67,000 {(C)}	37,000	{NA}	NA	NA	NA	NA
Inorganic												
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	R [R]	0.47 UJ	0.43 UJ	0.37 UJ
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	4.1 [3.3]	**4.9 (GSIP (2013))**	4.1	4.6
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	7.9 [7.1]	31 J	17 J	36 J
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	0.12 J [0.15]	0.33	0.19 J	0.21
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	0.16 [0.19]	0.1	0.13	0.75
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	4.8 [4.8]	10	10	**71 (SDBL (2013))**
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	**2.8 (GSIP (2013)) [2.6 (GSIP (2013))]**	**4.1 (GSIP (2013))**	**3.1 (GSIP (2013))**	**3.6 (GSIP (2013))**
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	8.3 [7.9]	8.1	8.8	**70 (SDBL (2013))**
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	**0.2 U [0.2 U]**	0.041 J	0.02 J	**0.2 U**
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	5.4 [5]	5.4	6.9	**46 (SDBL (2013))**
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	**420 J (GSIP (2013)) [240 J (GSIP (2013))]**	**220 J (GSIP (2013))**	**280 J (GSIP (2013))**	**1,300 J (GSIP (2013),SDBL (2013))**
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	**0.074 U [0.075 U]**	**0.073 U**	0.0252 J	0.0173 J
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	8.7 [7.2]	11	13	**79 (SDBL (2013))**
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	**1.4 U [1.3 U]**	**0.86 U**	**0.79 U**	**0.53 J (GSIP (2013),SDBL (2013))**
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	**0.16 (GSIP (2013)) [0.17 (GSIP (2013))]**	**0.11 J (GSIP (2013))**	0.096 J	0.073 J
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	0.11 J [0.13 J]	0.18 J	0.12 J	0.24 U
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	5.9 [6.1]	18	11	16
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	26 [26]	26	29	**57 (SDBL (2013))**
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	927,000 [936,000]	934,000	941,000	943,000

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-16-11 5 - 7 06/12/01	RFI-16-12 0.9 - 2.9 01/31/02	RFI-16-12 8.9 - 10.9 01/31/02	RFI-16-13 1 - 3 12/04/01
VOC												
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.037 U	0.04 U	0.042 U	0.036 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.074 U	0.08 U	0.084 U	0.073 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.16 U	0.17 U	0.18 U	0.16 U
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.037 U	0.04 U	0.042 U	0.036 U
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.037 U	0.04 U	0.042 U	0.036 U
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.037 U	0.04 U	0.042 U	0.036 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.16 UJ	0.17 U	0.18 U	0.16 U
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	0.074 U	NA	NA	0.095
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	0.16 U	0.17 UJ	0.18 UJ	0.16 U
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	**0.16 U**	**0.17 U**	**0.18 U**	**0.16 U**
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.074 U	0.08 U	0.084 U	0.073 U
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.037 U	0.04 U	0.042 U	0.036 U
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.037 U	0.04 U	0.042 U	0.036 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	0.074 U	NA	NA	0.052 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.074 U	0.08 U	0.084 U	0.073 U
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.074 U	0.08 U	0.084 U	0.073 U
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.27 U	0.29 U	0.3 U	0.26 U
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.27 U	0.29 U	0.3 U	0.26 U
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.27 U	0.29 U	0.3 U	0.26 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.27 U	0.29 U	0.3 U	0.26 UJ
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.037 U	0.04 U	0.042 U	0.036 U
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.074 U	0.08 U	0.084 U	0.073 U
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.074 U	0.08 U	0.084 U	0.073 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.16 U	0.17 UJ	0.18 UJ	0.16 U
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.16 U	0.17 U	0.18 U	0.16 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.037 U	0.04 U	0.042 U	0.036 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.037 U	0.04 U	0.042 U	0.036 U
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.16 U	0.17 U	0.18 U	0.16 U
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.037 U	0.04 U	0.042 U	0.036 U
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.16 U	0.17 U	0.18 U	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.037 U	0.04 U	1.4	0.036 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.037 U	0.04 U	0.042 U	0.036 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.16 U	0.17 U	0.18 U	0.16 U
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.074 U	0.08 U	0.084 U	0.073 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.074 U	0.08 U	0.084 U	0.073 U
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.037 U	0.04 U	0.042 U	0.036 U
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.16 U	0.041 J	0.049 J	0.16 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.028 J	0.08 U	0.084 U	0.063 J
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.16 U	0.11 J	0.18 U	0.16 U
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.27 U	0.29 U	0.3 U	0.26 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.11 J	0.045 J	0.18 U	0.083 J
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.029 J	0.17 U	0.031 J	0.16 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.028 J	0.04 U	0.042 U	0.036 U
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.037 U	0.04 U	0.042 U	0.036 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.037 U	0.04 U	0.042 U	0.036 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.037 U	0.04 U	0.042 U	0.032 J
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.037 U	0.04 U	0.042 U	0.036 U

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-16-11 5 - 7 06/12/01	RFI-16-12 0.9 - 2.9 01/31/02	RFI-16-12 8.9 - 10.9 01/31/02	RFI-16-13 1 - 3 12/04/01
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.037 U	0.04 U	0.042 U	0.036 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.037 U	0.15	0.17	0.036 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.074 U	0.08 U	0.084 U	0.073 U
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.037 U	0.04 U	0.16	0.036 U
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.028 J	0.04 U	0.042 U	0.036 U
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.2 U	0.2 U	0.18 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.2 U	0.2 U	0.18 U
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.2 U	0.2 U	0.18 U
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.2 U	0.2 U	0.18 U
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.18 U	0.2 U	0.2 U	0.18 U
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.18 U	0.2 U	0.2 U	0.18 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U	0.78 U	0.79 U	0.7 U
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.72 U	0.78 U	0.79 U	0.7 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.2 U	0.2 U	0.18 U
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.2 U	0.2 U	0.18 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	0.18 U	0.2 U	0.2 U	0.18 U
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.18 U	0.2 U	0.2 U	1.23 J
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.2 U	0.2 U	0.18 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U	0.78 U	0.79 U	0.7 U
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.2 U	0.2 U	0.18 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.37 U	0.4 UJ	0.4 UJ	0.36 UJ
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	0.72 U	0.78 UJ	0.79 U	0.7 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U	0.78 U	0.79 U	0.7 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.72 U	0.78 U	0.79 U	0.7 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.2 U	0.2 U	0.18 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.2 U	0.2 U	0.18 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U	0.78 U	0.79 U	0.7 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U	0.78 U	0.79 U	0.7 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U	0.78 U	0.79 U	0.7 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U	0.78 U	0.79 U	0.7 U
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	0.18 U	0.2 U	0.2 U	0.18 U
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.18 U	0.2 U	0.2 U	0.18 U
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.18 U	0.2 U	0.2 U	0.18 U
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.18 U	0.2 U	0.2 U	0.0565 J
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	**0.18 U**	**0.2 U**	**0.2 U**	**0.18 UJ**
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 UJ	0.2 U	0.2 U	0.18 UJ
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.0766 J	0.2 UJ	0.2 U	0.0746 J
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	0.0816 J	0.2 UJ	0.2 U	0.0826 J
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	0.115 J	0.2 UJ	0.2 U	0.0851 J
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	0.18 U	0.2 UJ	0.2 U	0.18 U
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	0.0766 J	0.2 UJ	0.2 U	0.18 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.2 U	0.2 U	0.18 U

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-16-11 5 - 7 06/12/01	RFI-16-12 0.9 - 2.9 01/31/02	RFI-16-12 8.9 - 10.9 01/31/02	RFI-16-13 1 - 3 12/04/01
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	0.036 U	0.038 U	0.039 U	0.035 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.18 U	0.2 UJ	0.2 U	0.0607 J
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.2 UJ	0.2 U	0.18 U
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.18 U	0.2 U	0.2 U	0.18 U
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	0.18 U	0.2 U	0.2 U	0.18 UJ
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	0.118 J	0.2 UJ	0.2 U	0.103 J
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.2 UJ	0.2 U	0.18 U
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	0.18 U	0.2 U	0.2 U	0.111 J
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.2 U	0.165 J	0.18 U
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.2 U	0.2 U	0.18 U
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.2 U	0.2 U	0.18 U
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.2 UJ	0.2 U	0.18 U
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.111 J	0.0621 J	0.2 U	0.177 J
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.18 U	0.2 U	0.2 U	0.18 U
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	0.18 U	0.2 U	0.2 U	0.18 U
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**0.18 U**	**0.2 U**	**0.2 U**	**0.18 U**
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	0.18 U	0.2 U	0.2 U	0.18 U
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.18 U	0.2 U	0.2 U	0.18 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.2 UJ	0.2 U	0.18 U
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.18 U	0.2 U	0.2 U	0.18 U
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.18 U	0.2 U	0.2 U	0.18 U
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.18 U	0.2 U	0.2 U	0.37
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.072 U	0.078 U	0.079 U	0.07 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	0.18 U	0.2 U	0.2 U	0.18 U
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.18 U	0.2 U	0.2 U	0.18 U
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	0.72 U	0.78 U	0.79 U	0.7 U
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	0.141 J	0.0982 J	0.2 U	0.414 J
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.2 U	0.2 U	0.18 U
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.129 J	0.0951 J	0.2 U	0.181 J
Pyridine	mg/kg	37	{NA}	730 {(C)}	100,000	2	9.8	{NA}	NA	NA	NA	NA
Volatile Organics												
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA
2-Ethanoxyethanol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2-Nitropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA
Cyclohexanone	mg/kg	220,000	{NA}	1,000,000 {(C,D)}	29,000,000	32	1,300	{NA}	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA
Ethyl acetate	mg/kg	7,500	{NA}	660,000 {(C)}	94,000,000	70,000 {(C)}	59,000	{NA}	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA
Isobutanol	mg/kg	8,900	{NA}	230,000 {(C)}	44,000,000	430,000 {(C)}	95,000	{NA}	NA	NA	NA	NA

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-16-11 5 - 7 06/12/01	RFI-16-12 0.9 - 2.9 01/31/02	RFI-16-12 8.9 - 10.9 01/31/02	RFI-16-13 1 - 3 12/04/01
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA
n-Butanol	mg/kg	8,700	200	95,000 {(C)}	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA
PCB												
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.038 U	0.041 U	0.041 U	0.037 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.038 U	0.041 U	0.041 U	0.037 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.038 U	0.041 U	0.041 U	0.037 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.038 U	0.041 U	0.041 U	0.037 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.038 U	0.041 U	0.041 U	0.037 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.038 U	0.033 J	0.041 U	0.037 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.038 U	0.041 U	0.041 U	0.037 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.038 U	0.033 J	0.041 U	0.037 U
TPH												
Methanol	mg/kg	3,100	12,000 {(C)}	360,000 {(C)}	96,000,000	67,000 {(C)}	37,000	{NA}	NA	NA	NA	NA
Inorganic												
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	0.4 UJ	0.1 J	0.16 J	R
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	2.1	4.1 J	**14 J (GSIP (2013),SDBL (2013))**	1.2 J
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	27 J	**110 J (SDBL (2013))**	47 J	15
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	0.18 J	3.2 J	2.9 J	0.089 J
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	0.13	0.43 J	0.22 J	0.09
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	14	14 J	12 J	6.8 J
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	1.5	**5.9 (GSIP (2013))**	**5.1 (GSIP (2013))**	1.3 J
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	20	**84 J (SDBL (2013))**	9.2 J	15 J
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	**0.2 U**	**0.2 U**	**0.2 U**	**0.2 U**
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**85 (SDBL (2013))**	**250 J (SDBL (2013))**	7.1 J	**55 J (SDBL (2013))**
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	**310 J (GSIP (2013))**	**270 J (GSIP (2013))**	**380 J (GSIP (2013))**	84 J
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	0.0281 J	0.0391 J	0.0205 J	**0.073 U**
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	15	**21 J (SDBL (2013))**	14 J	9.3
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	**0.73 U**	0.3 J	0.31 J	0.32 J
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	**0.18 U**	**0.49 J (GSIP (2013))**	**0.2 J (GSIP (2013))**	0.019 J
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	0.26 U	0.29 J	0.21 J	0.027 J
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	7.7	22	19	5.8 J
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	25	**120 (SDBL (2013))**	30	16 J
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	926,000	858,000	845,000	955,000

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-16-13 9 - 11 12/04/01	RFI-16-20 1 - 3 12/04/01	RFI-16-20 4 - 6 12/04/01	RFI-16-24 1 - 3 02/18/03	RFI-16-24 5 - 7 02/18/03	RFI-16-25 1 - 3 02/18/03
VOC														
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.042 U	0.039 U	0.038 U	0.034 U	0.033 U	0.035 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.084 U	0.079 U	0.076 U	0.067 U	0.067 U	0.07 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.18 U	0.17 U	0.16 U	0.14 U	0.14 U	0.15 U
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.042 U	0.039 U	0.038 U	0.034 U	0.033 U	0.035 U
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.042 U	0.039 U	0.038 U	0.034 UJ	0.033 UJ	0.035 UJ
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.042 U	0.039 U	0.038 U	0.034 U	0.033 U	0.035 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.18 U	0.17 U	0.16 U	0.14 U	0.14 U	0.15 U
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	0.06 U	0.056 U	0.054 U	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	0.18 U	0.17 U	0.16 U	0.14 U	0.14 U	0.15 U
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	**0.18 U**	**0.17 U**	**0.16 U**	**0.14 U**	**0.14 U**	**0.15 U**
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.084 U	0.079 U	0.076 U	0.067 U	0.067 U	0.07 U
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.042 U	0.039 U	0.038 U	0.034 U	0.033 U	0.035 U
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.042 U	0.039 U	0.038 U	0.034 U	0.033 U	0.035 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	0.06 U	0.056 U	0.054 U	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.084 U	0.079 U	0.076 U	0.067 U	0.067 U	0.07 U
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.084 U	0.079 U	0.076 U	0.067 U	0.067 U	0.07 U
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.3 UJ	0.28 U	0.27 U	0.045 J	0.03 J	0.033 J
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.3 UJ	0.28 U	0.27 U	0.067 U	0.067 U	0.07 U
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.3 U	0.28 U	0.27 U	1.4 U	1.4 U	1.5 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.3 UJ	0.28 UJ	0.27 UJ	0.29 U	0.05 J	0.3 U
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.042 U	0.12	0.038 U	0.034 U	0.033 U	0.035 U
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.084 U	0.079 U	0.076 U	0.067 U	0.067 U	0.07 U
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.084 U	0.079 U	0.076 U	0.067 U	0.067 U	0.07 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.18 U	0.17 U	0.16 U	0.14 UJ	0.14 UJ	0.15 UJ
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.18 U	0.17 U	0.16 U	0.14 U	0.14 U	0.15 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.042 U	0.039 U	0.038 U	0.034 U	0.033 U	0.035 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.042 U	0.039 U	0.038 U	0.034 U	0.033 U	0.035 U
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.18 U	0.17 U	0.16 U	0.14 U	0.14 U	0.15 U
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.042 U	0.039 U	0.038 U	0.034 U	0.033 U	0.035 U
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.18 U	0.17 U	0.16 U	0.14 U	0.14 U	0.15 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.042 U	0.039 U	0.038 U	0.034 U	0.033 U	0.035 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.042 U	0.039 U	0.038 U	0.034 U	0.033 U	0.035 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.053 J	0.16 U	0.14 U	0.14 U	0.15 U
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.084 U	0.079 U	0.076 U	0.067 U	0.067 U	0.07 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.084 U	0.079 U	0.076 U	0.067 U	0.067 U	0.07 U
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.042 U	0.039 U	0.038 U	0.034 U	0.033 U	0.035 U
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.18 U	0.17 U	0.16 U	0.14 U	0.14 U	0.15 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.084 U	0.039 J	0.076 U	0.067 U	0.031 J	0.07 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.17 U	0.16 U	0.14 U	0.14 U	0.15 U
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.3 U	0.28 U	0.27 U	0.14 U	0.14 U	0.15 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.13 J	0.16 U	0.14 U	0.058 J	0.15 U
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.18 U	0.17 U	0.16 U	0.036 J	0.037 J	0.035 J
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.042 U	0.039 U	0.038 U	0.034 U	0.033 U	0.035 U
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.042 U	0.039 U	0.038 U	0.034 U	0.033 U	0.035 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.042 U	0.039 U	0.038 U	0.034 U	0.033 U	0.035 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.042 U	0.055	0.038 U	0.067 U	0.026 J	0.07 U
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.042 U	0.039 U	0.038 U	0.034 U	0.033 U	0.035 U

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-16-13 9 - 11 12/04/01	RFI-16-20 1 - 3 12/04/01	RFI-16-20 4 - 6 12/04/01	RFI-16-24 1 - 3 02/18/03	RFI-16-24 5 - 7 02/18/03	RFI-16-25 1 - 3 02/18/03
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.042 U	0.039 U	0.038 U	0.034 U	0.033 U	0.035 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.042 U	0.039 U	0.038 U	0.034 U	0.033 U	0.035 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.084 U	0.079 U	0.076 U	0.067 U	0.067 U	0.07 U
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.042 U	0.039 U	0.038 U	0.067 U	0.067 U	0.07 U
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.042 U	0.039 U	0.038 U	0.034 U	0.033 U	0.035 U
SVOC														
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.19 U	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.19 U	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.81 U	0.77 U	0.75 U	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.81 U	0.77 U	0.75 U	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.19 U	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.19 U	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.81 U	0.77 U	0.75 U	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.41 UJ	0.39 UJ	0.38 UJ	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	0.81 U	0.77 U	0.75 U	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.81 U	0.77 U	0.75 U	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.81 U	0.77 U	0.75 U	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.19 U	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.81 U	0.77 U	0.75 U	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.81 U	0.77 U	0.75 U	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.81 U	0.77 U	0.75 U	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.81 U	0.77 U	0.75 U	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	**0.2 UJ**	**0.2 U**	**0.19 UJ**	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 UJ	0.2 U	0.19 UJ	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.0685 J	0.19 U	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	0.2 U	0.2 UJ	0.19 U	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	0.2 U	0.2 UJ	0.19 U	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 UJ	0.19 U	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.2 UJ	0.19 U	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.19 U	NA	NA	NA

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-16-13 9 - 11 12/04/01	RFI-16-20 1 - 3 12/04/01	RFI-16-20 4 - 6 12/04/01	RFI-16-24 1 - 3 02/18/03	RFI-16-24 5 - 7 02/18/03	RFI-16-25 1 - 3 02/18/03
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	0.04 U	0.038 U	0.037 U	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.2 U	0.0666 J	0.614 J	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.132 J	0.046 J	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	0.2 UJ	0.2 UJ	0.19 UJ	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	0.2 U	0.0743 J	0.19 U	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.2 UJ	0.19 U	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 UJ	0.19 U	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.2 U	0.106 J	0.19 U	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**0.2 U**	**0.2 U**	**0.19 U**	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.2 UJ	0.19 U	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.081 U	0.077 U	0.075 U	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	0.81 U	0.77 U	0.75 U	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	0.2 U	0.113 J	0.19 U	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.19 U	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.2 U	0.185 J	0.19 U	NA	NA	NA
Pyridine	mg/kg	37	{NA}	730 {(C)}	100,000	2	9.8	{NA}	NA	NA	NA	NA	NA	NA
Volatile Organics														
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA
2-Ethanoxyethanol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA
Cyclohexanone	mg/kg	220,000	{NA}	1,000,000 {(C,D)}	29,000,000	32	1,300	{NA}	NA	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA	NA	NA
Ethyl acetate	mg/kg	7,500	{NA}	660,000 {(C)}	94,000,000	70,000 {(C)}	59,000	{NA}	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA
Isobutanol	mg/kg	8,900	{NA}	230,000 {(C)}	44,000,000	430,000 {(C)}	95,000	{NA}	NA	NA	NA	NA	NA	NA

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-16-13 9 - 11 12/04/01	RFI-16-20 1 - 3 12/04/01	RFI-16-20 4 - 6 12/04/01	RFI-16-24 1 - 3 02/18/03	RFI-16-24 5 - 7 02/18/03	RFI-16-25 1 - 3 02/18/03
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA
n-Butanol	mg/kg	8,700	200	95,000 {(C)}	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA
PCB														
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U	0.04 U	0.039 U	NA	NA	NA
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U	0.04 U	0.039 U	NA	NA	NA
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U	0.04 U	0.039 U	NA	NA	NA
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U	0.04 U	0.039 U	NA	NA	NA
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U	0.04 U	0.039 U	NA	NA	NA
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U	0.04 U	0.039 U	NA	NA	NA
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U	0.04 U	0.039 U	NA	NA	NA
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.042 U	0.04 U	0.039 U	NA	NA	NA
TPH														
Methanol	mg/kg	3,100	12,000 {(C)}	360,000 {(C)}	96,000,000	67,000 {(C)}	37,000	{NA}	NA	NA	NA	NA	NA	NA
Inorganic														
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	R	R	R	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	4.4 J	**5.7 J (GSIP (2013))**	1.9 J	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	52	**100 (SDBL (2013))**	15	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	0.42 J	1.5 J	0.15 J	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	0.11	0.66	0.043	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	14 J	11 J	4.9 J	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	**7.3 J (GSIP (2013),SDBL (2013))**	**7.1 J (GSIP (2013),SDBL (2013))**	1.7 J	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	13 J	**72 J (SDBL (2013))**	4.6 J	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	**0.15 J (GSIP (2013))**	**0.55 (GSIP (2013),SDBL (2013))**	**0.2 U**	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	14 J	**71 J (SDBL (2013))**	2.7 J	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	**220 J (GSIP (2013))**	**190 J (GSIP (2013))**	79 J	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	0.0322 J	**0.0871 (GSIP (2013))**	0.0264 J	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	20	**34 (SDBL (2013))**	5.9	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	0.27 J	0.39 J	0.2 J	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	0.053 J	0.099 J	0.012 J	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	0.14 J	0.2 J	0.043 J	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	20 J	17 J	7.8 J	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	36 J	**64 J (SDBL (2013))**	15 J	NA	NA	NA
Miscellaneous														
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	831,000	870,000	898,000	NA	NA	NA

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-16-25 8 - 10 02/18/03	RFI-40-01 0.3 - 2.3 05/24/01	RFI-40-02 0.9 - 2.9 01/25/02	RFI-40-02 8.9 - 10.9 01/25/02	RFI-40-05 0.8 - 2.8 01/17/02
VOC													
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.034 U	0.039 U	0.041 U	0.042 U	0.04 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.068 U	0.078 U	0.081 U	0.085 U	0.08 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.15 U	0.17 U	0.17 U	0.18 U	0.17 U
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.034 U	0.039 U	0.041 U	0.042 U	0.04 U
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.034 UJ	0.039 U	0.041 U	0.042 U	0.04 U
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.034 U	0.039 U	0.041 U	0.042 U	0.04 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.15 U	0.17 U	0.17 U	0.18 U	0.17 U
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	0.15 U	0.17 U	0.17 U	0.18 U	0.17 U
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	**0.15 U**	**0.17 U**	**0.17 U**	**0.18 U**	**0.17 U**
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.068 U	0.078 U	0.081 U	0.085 U	0.08 U
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.034 U	0.014 J	0.041 U	0.042 U	0.04 U
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.034 U	0.039 U	0.041 U	0.042 U	0.04 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.068 U	0.078 U	0.081 U	0.085 U	0.08 U
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.068 U	0.078 U	0.081 U	0.085 U	0.08 U
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.29 UJ	0.28 U	0.29 U	0.3 U	0.06 J
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.068 U	0.28 U	0.29 U	0.3 U	0.29 U
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	1.5 U	0.28 U	0.29 U	0.3 U	0.29 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.055 J	0.063 J	0.33 U	0.3 U	0.29 UJ
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.034 U	0.039 U	0.041 U	0.042 U	0.04 U
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.068 U	0.078 U	0.081 U	0.085 U	0.08 U
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.068 U	0.078 U	0.081 U	0.085 U	0.08 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.15 UJ	0.17 U	0.17 UJ	0.18 UJ	0.17 U
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.15 U	0.17 U	0.17 U	0.18 U	0.17 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.034 U	0.039 U	0.041 U	0.042 U	0.04 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.034 U	0.039 U	0.041 U	0.042 U	0.04 U
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.15 U	0.17 U	0.17 U	0.18 U	0.17 U
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.034 U	0.039 U	0.041 U	0.042 U	0.04 U
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.15 U	0.17 U	0.034 J	0.18 U	0.17 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.034 U	0.039 U	0.041 U	0.042 U	0.04 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.034 U	0.039 U	0.041 U	0.042 U	0.04 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.15 U	0.17 U	0.17 U	0.18 U	0.17 U
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.068 U	0.078 U	0.081 U	0.085 U	0.08 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.068 U	0.078 U	0.081 U	0.085 U	0.08 U
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.034 U	0.039 U	0.041 U	0.042 U	0.04 U
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.15 U	0.17 U	0.17 U	0.18 U	0.17 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.068 U	0.078 U	0.081 U	0.085 U	0.08 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.055 J	0.073 J	0.19	0.071 J	0.17 U
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.15 U	0.28 U	0.29 U	0.3 U	0.29 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.15 U	0.021 J	0.048 J	0.18 U	0.042 J
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.041 J	0.17 U	0.03 J	0.18 U	0.17 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.034 U	0.011 J	0.041 U	0.042 U	0.04 U
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.034 U	0.039 U	0.041 U	0.042 U	0.04 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.034 U	0.039 U	0.041 UJ	0.042 UJ	0.04 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.068 U	0.039 U	0.041 U	0.042 U	0.04 U
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.034 U	0.039 U	0.041 U	0.042 U	0.04 U

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-16-25 8 - 10 02/18/03	RFI-40-01 0.3 - 2.3 05/24/01	RFI-40-02 0.9 - 2.9 01/25/02	RFI-40-02 8.9 - 10.9 01/25/02	RFI-40-05 0.8 - 2.8 01/17/02
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.034 U	0.039 U	0.041 U	0.042 U	0.04 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.034 U	0.039 U	0.051	0.042 U	0.04 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.068 U	0.078 U	0.081 U	0.085 U	0.08 U
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.068 U	0.039 U	0.041 U	0.042 U	0.04 U
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.034 U	0.011 J	0.041 U	0.042 U	0.04 U
SVOC													
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.19 U	0.2 U	0.21 U	0.2 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.19 U	0.2 U	0.21 U	0.2 U
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.21 U	0.2 U
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.21 U	0.2 U
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.21 U	0.2 U
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.21 U	0.2 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.75 U	0.78 U	0.82 U	0.77 U
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	0.75 U	0.78 U	0.82 U	0.77 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.19 U	0.2 U	0.21 U	0.2 U
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	0.19 U	0.2 U	0.21 U	0.2 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	0.19 U	0.2 U	0.21 U	0.2 U
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	0.302	0.2 U	0.21 U	0.2 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.19 U	0.2 U	0.21 U	0.2 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.75 U	0.78 U	0.82 U	0.77 U
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.21 U	0.2 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.38 U	0.39 UJ	0.42 UJ	0.39 UJ
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	0.75 U	0.78 U	0.82 UJ	0.77 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.75 U	0.78 U	0.82 U	0.77 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	0.75 U	0.78 U	0.82 UJ	0.77 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.19 U	0.2 U	0.21 UJ	0.2 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.21 U	0.2 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.75 U	0.78 U	0.82 U	0.77 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.75 U	0.78 U	0.82 U	0.77 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.75 U	0.78 U	0.82 U	0.77 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.75 U	0.78 U	0.82 U	0.77 U
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	0.19 U	0.0433 J	0.21 U	0.2 U
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	0.0508 J	0.2 U	0.21 U	0.2 U
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	0.19 U	0.2 U	0.21 U	0.2 U
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	0.19 U	0.117 J	0.171 J	0.2 U
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	**0.19 U**	**0.2 U**	**0.21 UJ**	**0.2 U**
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.19 U	0.2 U	0.21 U	0.2 UJ
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	0.102 J	0.615	0.349 J	0.2 U
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	0.211 J	0.617	0.21 UJ	0.2 U
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	0.456 J	0.909 J	0.21 UJ	0.2 U
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	0.113 J	1.39 J	0.21 UJ	0.2 U
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	0.154 J	0.686 J	0.21 UJ	0.2 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	0.19 U	0.2 U	0.21 U	0.2 U

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-16-25 8 - 10 02/18/03	RFI-40-01 0.3 - 2.3 05/24/01	RFI-40-02 0.9 - 2.9 01/25/02	RFI-40-02 8.9 - 10.9 01/25/02	RFI-40-05 0.8 - 2.8 01/17/02
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	0.037 U	0.038 U	0.04 U	0.038 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.168 J	0.21 UJ	0.2 U
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.21 UJ	0.2 U
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.21 U	0.2 U
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.0646 J	0.21 UJ	0.2 U
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	0.185 J	0.714	0.588 J	0.2 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	0.19 UJ	0.2 U	0.21 UJ	0.2 U
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	0.0901 J	0.0422 J	0.21 U	0.2 U
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.21 U	0.2 U
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.21 U	0.2 U
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.21 UJ	0.2 U
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	0.19 UJ	0.2 U	0.21 UJ	0.2 U
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	0.176 J	1.06	0.21 UJ	0.2 U
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	0.19 U	0.0472 J	0.284	0.2 U
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	0.19 U	0.2 U	0.21 UJ	0.2 U
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	**0.19 U**	**0.2 U**	**0.21 U**	**0.2 U**
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	0.19 U	0.2 U	0.21 U	0.2 U
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	0.19 U	0.2 U	0.21 U	0.2 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	0.112 J	1.09 J	0.21 UJ	0.2 U
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.21 U	0.2 U
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.21 U	0.2 U
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	0.206	0.0422 J	0.21 U	0.2 U
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	0.075 U	0.078 U	0.082 U	0.077 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.21 U	0.2 U
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.21 UJ	0.2 U
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	0.75 U	0.78 U	0.82 UJ	0.77 U
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	0.211	0.598	1.67 J	0.2 U
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	0.19 U	0.2 U	0.21 U	0.2 U
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	0.179 J	1.04	0.472 J	0.2 U
Pyridine	mg/kg	37	{NA}	730 {(C)}	100,000	2	9.8	{NA}	NA	NA	NA	NA	NA
Volatile Organics													
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA
2-Ethanoxyethanol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
2-Nitropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA
Cyclohexanone	mg/kg	220,000	{NA}	1,000,000 {(C,D)}	29,000,000	32	1,300	{NA}	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA	NA
Ethyl acetate	mg/kg	7,500	{NA}	660,000 {(C)}	94,000,000	70,000 {(C)}	59,000	{NA}	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA
Isobutanol	mg/kg	8,900	{NA}	230,000 {(C)}	44,000,000	430,000 {(C)}	95,000	{NA}	NA	NA	NA	NA	NA

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-16-25 8 - 10 02/18/03	RFI-40-01 0.3 - 2.3 05/24/01	RFI-40-02 0.9 - 2.9 01/25/02	RFI-40-02 8.9 - 10.9 01/25/02	RFI-40-05 0.8 - 2.8 01/17/02
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA
n-Butanol	mg/kg	8,700	200	95,000 {(C)}	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA
PCB													
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	0.039 U	0.041 U	0.043 U	0.04 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	0.039 U	0.041 U	0.043 U	0.04 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	0.039 U	0.041 U	0.043 U	0.04 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	0.039 U	0.041 U	0.043 U	0.04 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	0.039 U	0.041 U	0.043 U	0.04 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	0.039 U	0.034 J	0.043 U	0.04 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	0.039 U	0.041 U	0.043 U	0.04 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	NA	0.039 U	0.034 J	0.043 U	0.04 U
TPH													
Methanol	mg/kg	3,100	12,000 {(C)}	360,000 {(C)}	96,000,000	67,000 {(C)}	37,000	{NA}	NA	NA	NA	NA	NA
Inorganic													
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	0.37 UJ	0.14 J	0.15 J	R
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	3.6 J	**6.3 J (GSIP (2013),SDBL (2013))**	**4.7 J (GSIP (2013))**	3.8
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	37 J	61 J	52 J	21 J
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	0.3 J	3.3 J	2.9 J	0.35
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	**2 J (SDBL (2013))**	0.28 J	0.26 J	0.1
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	8.8 J	17 J	13 J	7.8
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	**3.4 J (GSIP (2013))**	**5.8 (GSIP (2013))**	**5.4 (GSIP (2013))**	**3.7 (GSIP (2013))**
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	31 J	15 J	11 J	9.7
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	0.041 J	**0.14 J (GSIP (2013))**	**0.2 U**	**0.2 U**
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	**23 J (SDBL (2013))**	12 J	6.8 J	8.3
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	**170 (GSIP (2013))**	**410 J (GSIP (2013))**	**440 J (GSIP (2013))**	**170 J (GSIP (2013))**
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	0.0412 J	**0.08 U**	**0.083 U**	0.0477 J
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	8 J	16 J	14 J	8.8
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	**0.54 J (GSIP (2013),SDBL (2013))**	0.15 J	0.07 U	0.089
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	0.081 J	**0.19 J (GSIP (2013))**	**0.18 J (GSIP (2013))**	0.088 J
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	0.18 J	0.23 J	0.2 J	0.53
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	16 J	26	22	13
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	**51 J (SDBL (2013))**	35	35	27
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	891,000	861,000	817,000	871,000

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-05 8.8 - 10.8 01/17/02	RFI-40-05 10.8 - 12.8 01/17/02	RFI-40-10 0.7 - 2.7 01/30/02	RFI-40-10 4.7 - 6.7 01/30/02
VOC												
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.041 U	0.039 U	0.037 U	0.041 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.082 U	0.078 U	0.075 U	0.081 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.17 U	0.17 U	0.16 U	0.17 U
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.041 U	0.039 U	0.037 U	0.041 U
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.041 U	0.039 U	0.037 U	0.041 U
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.041 U	0.039 U	0.037 U	0.041 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.17 U	0.17 U	0.16 U	0.17 U
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	0.17 U	0.17 U	0.16 UJ	0.17 UJ
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	**0.17 U**	**0.17 U**	**0.16 U**	**0.17 U**
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.082 U	0.078 U	0.075 U	0.081 U
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.041 U	0.039 U	0.037 U	0.041 U
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.041 U	0.039 U	0.037 U	0.041 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.082 U	0.078 U	0.075 U	0.081 U
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.082 U	0.078 U	0.075 U	0.081 U
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.051 J	0.043 J	0.27 U	0.29 U
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.29 U	0.28 U	0.27 U	0.29 U
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	0.29 U	0.28 U	0.27 U	0.29 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.29 UJ	0.28 UJ	0.27 U	0.29 U
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.041 U	0.039 U	0.037 U	0.041 U
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.082 U	0.078 U	0.075 U	0.081 U
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.082 U	0.078 U	0.075 U	0.081 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.17 U	0.17 U	0.16 UJ	0.17 UJ
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.17 U	0.17 U	0.16 U	0.17 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.041 U	0.039 U	0.037 U	0.041 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.041 U	0.039 U	0.037 U	0.041 U
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.17 U	0.17 U	0.16 U	0.17 U
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.041 U	0.039 U	0.037 U	0.041 U
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.17 U	0.17 U	0.16 U	0.17 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.041 U	0.039 U	0.037 U	0.041 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.041 U	0.039 U	0.037 U	0.041 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.17 U	0.16 U	0.17 U
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.082 U	0.078 U	0.075 U	0.081 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.082 U	0.078 U	0.075 U	0.081 U
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.041 U	0.039 U	0.037 U	0.041 U
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.17 U	0.17 U	0.16 U	0.17 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.082 U	0.078 U	0.075 U	0.081 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.17 U	0.058 J	0.17 U
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.29 U	0.28 U	0.27 U	0.29 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.17 U	0.04 J	0.17 U
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.17 U	0.17 U	0.029 J	0.031 J
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.041 U	0.039 U	0.037 U	0.041 U
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.041 U	0.039 U	0.037 U	0.041 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.041 U	0.039 U	0.061	0.041 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.041 U	0.039 U	0.037 U	0.041 U
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.041 U	0.039 U	0.037 U	0.041 U

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-05 8.8 - 10.8 01/17/02	RFI-40-05 10.8 - 12.8 01/17/02	RFI-40-10 0.7 - 2.7 01/30/02	RFI-40-10 4.7 - 6.7 01/30/02
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.041 U	0.039 U	0.037 U	0.041 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.041 U	0.039 U	0.15	0.031 J
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.082 U	0.078 U	0.075 U	0.081 U
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.041 U	0.039 U	0.037 U	0.041 U
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.041 U	0.039 U	0.037 U	0.041 U
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.0543 J	0.19 U	0.18 U	0.19 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	0.18 U	0.19 U
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.18 U	0.19 U
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.18 U	0.19 U
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.18 U	0.19 U
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.18 U	0.19 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.78 U	0.75 U	0.7 U	0.77 U
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.78 U	0.75 U	0.7 U	0.77 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	0.18 U	0.19 U
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.2 U	0.19 U	0.18 U	0.19 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	0.2 U	0.19 U	0.18 U	0.19 U
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.2 U	0.19 U	0.18 U	0.19 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	0.18 U	0.19 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.78 U	0.75 U	0.7 U	0.77 U
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.18 U	0.19 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.4 UJ	0.38 UJ	0.36 UJ	0.39 UJ
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	0.78 U	0.75 U	0.7 U	0.77 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.78 U	0.75 U	0.7 U	0.77 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.78 U	0.75 U	0.7 U	0.77 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	0.18 U	0.19 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.18 U	0.19 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.78 U	0.75 U	0.7 U	0.77 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.78 U	0.75 U	0.7 U	0.77 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.78 U	0.75 U	0.7 U	0.77 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.78 U	0.75 U	0.7 U	0.77 U
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	0.2 U	0.19 U	0.0343 J	0.19 U
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.2 U	0.19 U	0.18 U	0.19 U
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.2 U	0.19 U	0.18 U	0.19 U
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.2 U	0.19 U	0.0874 J	0.19 U
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	**0.2 U**	**0.19 U**	**0.18 U**	**0.19 U**
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 UJ	0.19 UJ	0.18 U	0.19 U
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.355	0.19 U
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.345	0.19 U
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	0.2 U	0.19 U	0.353	0.19 U
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.263 J	0.19 U
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.294	0.19 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	0.18 U	0.19 U

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-05 8.8 - 10.8 01/17/02	RFI-40-05 10.8 - 12.8 01/17/02	RFI-40-10 0.7 - 2.7 01/30/02	RFI-40-10 4.7 - 6.7 01/30/02
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	0.038 U	0.037 U	0.035 U	0.038 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.0602 J	0.19 U
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.18 U	0.19 U
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.18 U	0.19 U
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.0619 J	0.19 U
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	0.2 U	0.19 U	0.404	0.19 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.0962 J	0.19 U
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	0.0442 J	0.19 U	0.18 U	0.19 U
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.198	0.19 U	0.18 U	0.19 U
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.18 U	0.19 U
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.18 U	0.19 U
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.18 U	0.19 U
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.2 U	0.19 U	0.758	0.19 U
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.2 U	0.19 U	0.0409 J	0.19 U
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	0.2 U	0.19 U	0.18 U	0.19 U
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**0.2 U**	**0.19 U**	**0.18 U**	**0.19 U**
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	0.2 U	0.19 U	0.18 U	0.19 U
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.2 U	0.19 U	0.18 U	0.19 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.219 J	0.19 U
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.18 U	0.19 U
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.18 U	0.19 U
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.2 U	0.19 U	0.18 U	0.19 U
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.078 U	0.075 U	0.07 U	0.077 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.18 U	0.19 U
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.0961 J	0.19 U	0.18 U	0.19 U
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	0.78 U	0.75 U	0.7 U	0.77 U
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	0.2 U	0.19 U	0.518	0.19 U
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.2 U	0.19 U	0.18 U	0.19 U
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.2 U	0.19 U	0.641	0.19 U
Pyridine	mg/kg	37	{NA}	730 {(C)}	100,000	2	9.8	{NA}	NA	NA	NA	NA
Volatile Organics												
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA
2-Ethanoxyethanol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2-Nitropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA
Cyclohexanone	mg/kg	220,000	{NA}	1,000,000 {(C,D)}	29,000,000	32	1,300	{NA}	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA
Ethyl acetate	mg/kg	7,500	{NA}	660,000 {(C)}	94,000,000	70,000 {(C)}	59,000	{NA}	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA
Isobutanol	mg/kg	8,900	{NA}	230,000 {(C)}	44,000,000	430,000 {(C)}	95,000	{NA}	NA	NA	NA	NA

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-05 8.8 - 10.8 01/17/02	RFI-40-05 10.8 - 12.8 01/17/02	RFI-40-10 0.7 - 2.7 01/30/02	RFI-40-10 4.7 - 6.7 01/30/02
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA
n-Butanol	mg/kg	8,700	200	95,000 {(C)}	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA
PCB												
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.041 U	0.039 U	0.037 U	0.04 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.041 U	0.039 U	0.037 U	0.04 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.041 U	0.039 U	0.037 U	0.04 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.041 U	0.039 U	0.037 U	0.04 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.041 U	0.039 U	0.037 U	0.04 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.041 U	0.039 U	0.014 J	0.04 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.041 U	0.039 U	0.037 U	0.04 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.041 U	0.039 U	0.014 J	0.04 U
TPH												
Methanol	mg/kg	3,100	12,000 {(C)}	360,000 {(C)}	96,000,000	67,000 {(C)}	37,000	{NA}	NA	NA	NA	NA
Inorganic												
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	R	R	0.1 J	0.098 J
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	3.9	4.4	**4.8 J (GSIP (2013))**	**9.1 J (GSIP (2013),SDBL (2013))**
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	39 J	39 J	38 J	59 J
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	0.65	0.76	2.5 J	2.7 J
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	0.14	0.11	0.23 J	0.17 J
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	12	15	15 J	13 J
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	**4.8 (GSIP (2013))**	**6.3 (GSIP (2013))**	**4.6 (GSIP (2013))**	**5.4 (GSIP (2013))**
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	11	9.8	9.1 J	9.4 J
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	**0.5 U**	**0.4 U**	**0.2 U**	**0.2 U**
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	6.7	6.7	11 J	8.7 J
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	**230 J (GSIP (2013))**	**300 J (GSIP (2013))**	**410 J (GSIP (2013))**	**280 J (GSIP (2013))**
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	0.0302 J	0.0212 J	**0.074 U**	**0.077 U**
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	14	17	11 J	13 J
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	**0.43 J (GSIP (2013),SDBL (2013))**	0.2	0.23 J	0.066 U
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	**0.12 J (GSIP (2013))**	**0.11 J (GSIP (2013))**	**0.11 J (GSIP (2013))**	**0.14 J (GSIP (2013))**
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	0.3	0.19	0.13 J	0.16 J
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	19	27	22	24
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	28	28	30	30
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	859,000	889,000	952,000	875,000

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-12 0 - 2 03/24/03	RFI-40-12 8 - 10 03/24/03	RFI-40-12 12 - 14 03/24/03	RFI-40-13 0.5 - 2.5 03/25/03
VOC												
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.041 U	0.037 U	0.039 U	0.15
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.082 U	0.074 UJ	0.078 UJ	0.077 UJ
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.18 U	0.16 U	0.17 U	0.16 U
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.041 U	0.037 U	0.039 U	0.038 U
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.041 U	0.037 U	0.039 U	0.038 U
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.041 U	0.037 U	0.039 U	0.038 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.18 U	0.16 U	0.17 U	0.16 U
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	0.18 U	0.16 U	0.17 U	0.16 U
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	**0.18 U**	**0.16 U**	**0.17 U**	**0.16 U**
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.082 U	0.074 U	0.078 U	0.077 U
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.041 U	0.037 U	0.039 U	0.038 U
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.041 U	0.037 U	0.039 U	0.038 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.082 U	0.074 U	0.078 U	0.077 U
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.082 U	0.074 U	0.078 U	0.077 U
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.35 U	0.32 UJ	0.34 UJ	0.33 UJ
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.082 U	0.074 UJ	0.078 UJ	0.077 UJ
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	1.8 U	1.6 UJ	1.7 U	1.6 UJ
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.35 U	0.32 UJ	0.34 UJ	0.33 UJ
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.041 U	0.037 U	0.039 U	0.038 U
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.082 U	0.074 U	0.078 U	0.077 U
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.082 U	0.074 U	0.078 U	0.077 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.18 U	0.16 U	0.17 U	0.16 U
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.18 U	0.16 UJ	0.17 UJ	0.16 UJ
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.041 U	0.037 U	0.039 U	0.038 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.041 U	0.037 U	0.039 U	0.038 U
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.18 U	0.16 U	0.17 U	0.16 U
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.041 U	0.037 U	0.039 U	0.038 U
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.18 U	0.16 U	0.17 U	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.041 U	0.037 U	0.039 U	0.038 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.041 U	0.037 U	0.039 U	0.038 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.067 J	0.16 U	0.17 U	0.055 J
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.082 U	0.074 U	0.078 U	0.077 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.082 U	0.074 U	0.078 U	0.077 U
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.044	0.037 U	0.039 U	0.038 U
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.036 J	0.16 U	0.17 U	0.16 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.15	0.074 U	0.078 U	0.068 J
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	1	0.16 UJ	0.17 UJ	0.16 UJ
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.18 U	0.16 UJ	0.17 UJ	0.16 UJ
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2	0.16 UJ	0.17 UJ	0.24 J
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.18 U	0.036 J	0.17 U	0.042 J
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.12	0.037 U	0.039 U	0.064
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.036 J	0.037 U	0.039 U	0.038 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.041 U	0.037 U	0.039 U	0.038 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.11	0.074 U	0.078 U	0.12
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.041 U	0.037 U	0.039 U	0.038 U

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-12 0 - 2 03/24/03	RFI-40-12 8 - 10 03/24/03	RFI-40-12 12 - 14 03/24/03	RFI-40-13 0.5 - 2.5 03/25/03
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.041 U	0.037 U	0.039 U	0.038 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.12	0.037 U	0.039 U	0.038 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.09	0.074 U	0.078 U	0.077 U
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.082 U	0.074 U	0.078 U	0.077 U
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.12	0.037 U	0.039 U	0.064
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	2 U	0.18 U	0.2 U	1.9 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	2 U	0.18 U	0.2 U	1.9 U
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	2 U	0.18 U	0.2 U	1.9 U
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	**2 U**	0.18 U	0.2 U	**1.9 U**
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	**2 U**	0.18 U	0.2 U	**1.9 U**
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	2 U	0.18 U	0.2 U	1.9 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	8 U	0.71 U	0.77 U	7.6 U
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	8 U	0.71 U	0.77 U	7.6 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	2 U	0.18 U	0.2 U	1.9 U
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	2 U	0.18 U	0.2 U	1.9 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	**2 U**	0.18 U	0.2 U	**1.9 U**
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	1.48 J	0.18 U	0.2 U	1.9 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	2 U	0.18 U	0.2 U	1.9 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	8 U	0.71 U	0.77 U	7.6 U
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	2 U	0.18 U	0.2 U	1.9 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	4 U	0.36 UJ	0.39 UJ	3.9 UJ
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	**8 U**	0.71 U	0.77 U	**7.6 U**
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	8 U	0.71 U	0.77 U	7.6 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	8 U	0.71 U	0.77 U	7.6 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	2 U	0.18 U	0.2 U	1.9 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	**2 U**	0.18 U	0.2 U	**1.9 U**
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	8 U	0.71 U	0.77 U	7.6 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	8 U	0.71 U	0.77 U	7.6 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	8 U	0.71 U	0.77 U	7.6 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	8 U	0.71 U	0.77 U	7.6 U
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	7.69	0.18 U	0.2 U	1.9 U
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.515 J	0.18 U	0.2 U	1.9 U
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	2 U	0.18 U	0.2 U	1.9 U
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	15.9	0.18 U	0.2 U	1.9 U
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	**2 U**	**0.18 U**	**0.2 U**	**1.9 U**
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	2 UJ	0.18 UJ	0.2 U	1.9 UJ
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	37.1	0.18 U	0.2 U	1.9 U
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	**35.8 J (NDC (2013))**	0.18 U	0.2 U	1.9 U
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	36.1 J	0.18 U	0.2 U	1.9 U
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	23 J	0.18 U	0.2 U	1.9 U
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	37.2 J	0.18 U	0.2 U	1.9 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	2 U	0.18 U	0.2 U	1.9 U

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-12 0 - 2 03/24/03	RFI-40-12 8 - 10 03/24/03	RFI-40-12 12 - 14 03/24/03	RFI-40-13 0.5 - 2.5 03/25/03
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	**0.39 U**	0.035 U	0.038 U	**0.37 U**
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	2.2	0.18 U	0.2 U	1.9 U
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	4.17	0.18 U	0.2 U	1.9 U
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	2 U	0.18 U	0.2 U	1.9 U
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	**10.7 (GSIP (2013))**	0.18 U	0.2 U	**1.9 U**
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	37.9	0.18 U	0.2 U	1.9 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	2 UJ	0.18 UJ	0.2 UJ	1.9 UJ
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	**4.93 (GSIP (2013))**	0.18 U	0.2 U	**1.9 U**
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	2 U	0.18 U	0.2 U	1.9 U
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	2 U	0.18 U	0.2 U	1.9 U
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	2 U	0.18 U	0.2 U	1.9 U
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	2 U	0.18 U	0.2 U	1.9 U
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	**105 JD (GSIP (2013))**	0.18 U	0.2 U	1.22 J
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	**7.1 (GSIP (2013))**	0.18 U	0.2 U	1.9 U
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	**2 U**	0.18 U	0.2 U	**1.9 U**
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**2 U**	**0.18 U**	**0.2 U**	**1.9 U**
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	2 U	0.18 U	0.2 U	1.9 U
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	**2 U**	0.18 U	0.2 U	**1.9 U**
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	20.8 J	0.18 UJ	0.2 UJ	1.9 UJ
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	2 U	0.18 U	0.2 U	1.9 U
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	**2 U**	0.18 U	0.2 U	**1.9 U**
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	**3.54 (GSIP (2013))**	0.18 U	0.2 U	**1.9 U**
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.8 U	0.071 U	0.077 U	0.76 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	2 U	0.18 U	0.2 U	1.9 U
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	2 U	0.18 U	0.2 U	1.9 U
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	8 U	0.71 U	0.77 U	7.6 U
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	**77.1 D (GSIP (2013))**	0.18 U	0.2 U	0.718 J
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	2 U	0.18 U	0.2 U	1.9 U
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	88.8 D	0.18 U	0.2 U	1.19 J
Pyridine	mg/kg	37	{NA}	730 {(C)}	100,000	2	9.8	{NA}	NA	NA	NA	NA
Volatile Organics												
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA
2-Ethanoxyethanol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2-Nitropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA
Cyclohexanone	mg/kg	220,000	{NA}	1,000,000 {(C,D)}	29,000,000	32	1,300	{NA}	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA
Ethyl acetate	mg/kg	7,500	{NA}	660,000 {(C)}	94,000,000	70,000 {(C)}	59,000	{NA}	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA
Isobutanol	mg/kg	8,900	{NA}	230,000 {(C)}	44,000,000	430,000 {(C)}	95,000	{NA}	NA	NA	NA	NA

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-12 0 - 2 03/24/03	RFI-40-12 8 - 10 03/24/03	RFI-40-12 12 - 14 03/24/03	RFI-40-13 0.5 - 2.5 03/25/03
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA
n-Butanol	mg/kg	8,700	200	95,000 {(C)}	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA
PCB												
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U	0.037 U	0.04 U	0.04 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U	0.037 U	0.04 U	0.04 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U	0.037 U	0.04 U	0.04 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U	0.037 U	0.04 U	0.04 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.16	0.037 U	0.04 U	0.04 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.96	0.037 U	0.04 U	0.04 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U	0.037 U	0.04 U	0.04 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	1.12	0.037 U	0.04 U	0.04 U
TPH												
Methanol	mg/kg	3,100	12,000 {(C)}	360,000 {(C)}	96,000,000	67,000 {(C)}	37,000	{NA}	NA	NA	NA	NA
Inorganic												
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	0.21 J	0.017 J	R	0.32 J
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	**6.4 (GSIP (2013),SDBL (2013))**	**5.1 (GSIP (2013))**	4.4	**6 (GSIP (2013),SDBL (2013))**
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	**290 (SDBL (2013))**	45	29	61
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	0.34	0.34	0.27	0.31
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	**1.4 (SDBL (2013))**	0.091 U	0.11 U	0.48
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	**30 (SDBL (2013))**	15	11	11
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	**5.1 (GSIP (2013))**	**5.6 (GSIP (2013))**	**5.4 (GSIP (2013))**	**3.6 (GSIP (2013))**
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	**56 (SDBL (2013))**	10	13	**37 (SDBL (2013))**
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	**2.6 (GSIP (2013),SDBL (2013))**	**1 U**	**1 U**	**0.24 (GSIP (2013))**
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**120 (SDBL (2013))**	7.2	6	**54 (SDBL (2013))**
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	**210 J (GSIP (2013))**	**220 J (GSIP (2013))**	**250 J (GSIP (2013))**	**180 J (GSIP (2013))**
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	**0.143 (GSIP (2013),SDBL (2013))**	0.00981 J	0.0127 J	**0.0511 J (GSIP (2013))**
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	**27 (SDBL (2013))**	15	15	12
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	**0.54 U**	0.25 U	0.35 U	**0.42 U**
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	**0.14 J (GSIP (2013))**	**0.11 J (GSIP (2013))**	0.057 J	0.06 J
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	0.18	0.13 J	0.13 J	0.18
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	19	22	17	13
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	**760 J (GSIP (2013),SDBL (2013))**	33 J	31 J	**210 J (SDBL (2013))**
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	841,000	938,000	869,000	881,000

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-13 8.5 - 10.5 03/25/03	RFI-40-13 12.5 - 14.5 03/25/03	RFI-40-14 0.5 - 2.5 03/25/03
VOC											
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.04 U [0.041 U]	0.038 U	0.041 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.08 UJ [0.081 UJ]	0.075 UJ	0.081 UJ
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.17 U [0.17 U]	0.16 U	0.17 U
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.04 U [0.041 U]	0.038 U	0.041 U
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.04 U [0.041 U]	0.038 U	0.041 U
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.04 U [0.041 U]	0.038 U	0.041 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.17 U [0.17 U]	0.16 U	0.17 U
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	0.17 U [0.17 U]	0.16 U	0.17 U
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	**0.17 U [0.17 U]**	**0.16 U**	**0.17 U**
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.08 U [0.081 U]	0.075 U	0.081 U
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.04 U [0.041 U]	0.038 U	0.041 U
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.04 U [0.041 U]	0.038 U	0.041 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.08 U [0.081 U]	0.075 U	0.081 U
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.08 U [0.081 U]	0.075 U	0.081 U
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.34 UJ [0.35 UJ]	0.32 UJ	0.35 UJ
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.08 UJ [0.081 UJ]	0.075 UJ	0.081 UJ
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	1.7 UJ [1.7 UJ]	1.6 UJ	1.7 UJ
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.34 UJ [0.35 UJ]	0.32 UJ	0.35 UJ
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.04 U [0.041 U]	0.038 U	0.041 U
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.08 U [0.081 U]	0.075 U	0.081 U
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.08 U [0.081 U]	0.075 U	0.081 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.17 U [0.17 U]	0.16 U	0.17 U
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.17 UJ [0.17 UJ]	0.16 UJ	0.17 UJ
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.04 U [0.041 U]	0.038 U	0.041 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.04 U [0.041 U]	0.038 U	0.041 U
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.17 U [0.17 U]	0.16 U	0.17 U
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.04 U [0.041 U]	0.038 U	0.041 U
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.17 U [0.17 U]	0.16 U	0.17 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.04 U [0.041 U]	0.038 U	0.041 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.04 U [0.041 U]	0.038 U	0.041 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U [0.17 U]	0.16 U	0.17 U
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.08 U [0.081 U]	0.075 U	0.081 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.08 U [0.081 U]	0.075 U	0.081 U
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.04 U [0.041 U]	0.038 U	0.041 U
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.17 U [0.17 U]	0.16 U	0.17 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.08 U [0.081 U]	0.075 U	0.033 J
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 UJ [0.17 UJ]	0.16 UJ	0.17 UJ
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.17 UJ [0.17 UJ]	0.16 UJ	0.17 UJ
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 UJ [0.17 UJ]	0.16 UJ	0.12 J
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.093 J [0.15 J]	0.087 J	0.11 J
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.04 U [0.041 U]	0.038 U	0.041 U
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.04 U [0.041 U]	0.038 U	0.041 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.04 U [0.041 U]	0.038 U	0.041 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.08 U [0.081 U]	0.075 U	0.042 J
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.04 U [0.041 U]	0.038 U	0.041 U

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-13 8.5 - 10.5 03/25/03	RFI-40-13 12.5 - 14.5 03/25/03	RFI-40-14 0.5 - 2.5 03/25/03
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.04 U [0.041 U]	0.038 U	0.041 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.04 U [0.041 U]	0.038 U	0.041 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.08 U [0.081 U]	0.075 U	0.081 U
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.08 U [0.081 U]	0.075 U	0.081 U
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.04 U [0.041 U]	0.038 U	0.041 U
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U [0.2 U]	0.19 U	2 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U [0.2 U]	0.19 U	2 U
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.2 U [0.2 U]	0.19 U	2 U
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.2 U [0.2 U]	0.19 U	**2 U**
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.2 U [0.2 U]	0.19 U	**2 U**
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.2 U [0.2 U]	0.19 U	2 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.8 U [0.79 U]	0.74 U	7.9 U
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.8 U [0.79 U]	0.74 U	7.9 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U [0.2 U]	0.19 U	2 U
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.2 U [0.2 U]	0.19 U	2 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	0.2 U [0.2 U]	0.19 U	**2 U**
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.2 U [0.2 U]	0.19 U	2 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U [0.2 U]	0.19 U	2 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.8 U [0.79 U]	0.74 U	7.9 U
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.2 U [0.2 U]	0.19 U	2 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.4 UJ [0.4 UJ]	0.38 UJ	4 UJ
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	0.8 U [0.79 U]	0.74 U	**7.9 U**
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.8 U [0.79 U]	0.74 U	7.9 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.8 U [0.79 U]	0.74 U	7.9 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U [0.2 U]	0.19 U	2 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	0.2 U [0.2 U]	0.19 U	**2 U**
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.8 U [0.79 U]	0.74 U	7.9 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.8 U [0.79 U]	0.74 U	7.9 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.8 U [0.79 U]	0.74 U	7.9 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.8 U [0.79 U]	0.74 U	7.9 U
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	0.2 U [0.2 U]	0.19 U	2 U
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.2 U [0.2 U]	0.19 U	2 U
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.2 U [0.2 U]	0.19 U	2 U
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.2 U [0.2 U]	0.19 U	2 U
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	**0.2 U [0.2 U]**	**0.19 U**	**2 U**
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U [0.2 UJ]	0.19 UJ	2 UJ
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.2 U [0.2 U]	0.19 U	2 U
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	0.2 U [0.2 U]	0.19 U	2 U
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	0.2 U [0.2 U]	0.19 U	2 U
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	0.2 U [0.2 U]	0.19 U	2 U
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	0.2 U [0.2 U]	0.19 U	2 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U [0.2 U]	0.19 U	2 U

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-13 8.5 - 10.5 03/25/03	RFI-40-13 12.5 - 14.5 03/25/03	RFI-40-14 0.5 - 2.5 03/25/03
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	0.039 U [0.039 U]	0.036 U	**0.39 U**
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.2 U [0.2 U]	0.19 U	2 U
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.2 U [0.2 U]	0.19 U	2 U
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.2 U [0.2 U]	0.19 U	2 U
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	0.2 U [0.2 U]	0.19 U	**2 U**
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	0.2 U [0.2 U]	0.19 U	2 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	0.2 UJ [0.2 UJ]	0.19 UJ	2 UJ
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	0.2 U [0.2 U]	0.19 U	**2 U**
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U [0.2 U]	0.19 U	2 U
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U [0.2 U]	0.19 U	2 U
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.2 U [0.2 U]	0.19 U	2 U
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.2 U [0.2 U]	0.19 U	2 U
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.2 U [0.2 U]	0.19 U	2 U
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.2 U [0.2 U]	0.19 U	2 U
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	0.2 U [0.2 U]	0.19 U	**2 U**
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**0.2 U [0.2 U]**	**0.19 U**	**2 U**
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	0.2 U [0.2 U]	0.19 U	2 U
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.2 U [0.2 U]	0.19 U	**2 U**
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.2 UJ [0.2 UJ]	0.19 UJ	2 UJ
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.2 U [0.2 U]	0.19 U	2 U
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.2 U [0.2 U]	0.19 U	**2 U**
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.2 U [0.2 U]	0.19 U	**2 U**
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.08 U [0.079 U]	0.074 U	0.79 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	0.2 U [0.2 U]	0.19 U	2 U
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.2 U [0.2 U]	0.19 U	2 U
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	0.8 U [0.79 U]	0.74 U	7.9 U
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	0.2 U [0.2 U]	0.19 U	2 U
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.2 U [0.2 U]	0.19 U	2 U
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.2 U [0.2 U]	0.19 U	2 U
Pyridine	mg/kg	37	{NA}	730 {(C)}	100,000	2	9.8	{NA}	NA	NA	NA
Volatile Organics											
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA
2-Ethanoxyethanol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
2-Nitropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA
Cyclohexanone	mg/kg	220,000	{NA}	1,000,000 {(C,D)}	29,000,000	32	1,300	{NA}	NA	NA	NA
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA
Ethyl acetate	mg/kg	7,500	{NA}	660,000 {(C)}	94,000,000	70,000 {(C)}	59,000	{NA}	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA
Isobutanol	mg/kg	8,900	{NA}	230,000 {(C)}	44,000,000	430,000 {(C)}	95,000	{NA}	NA	NA	NA

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-13 8.5 - 10.5 03/25/03	RFI-40-13 12.5 - 14.5 03/25/03	RFI-40-14 0.5 - 2.5 03/25/03
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA
n-Butanol	mg/kg	8,700	200	95,000 {(C)}	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA
PCB											
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U [0.041 U]	0.039 U	0.041 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U [0.041 U]	0.039 U	0.041 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U [0.041 U]	0.039 U	0.041 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U [0.041 U]	0.039 U	0.041 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U [0.041 U]	0.039 U	0.041 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U [0.041 U]	0.039 U	0.041 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U [0.041 U]	0.039 U	0.041 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.042 U [0.041 U]	0.039 U	0.041 U
TPH											
Methanol	mg/kg	3,100	12,000 {(C)}	360,000 {(C)}	96,000,000	67,000 {(C)}	37,000	{NA}	NA	NA	NA
Inorganic											
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	0.016 J [0.012 J]	0.018 J	0.11 J
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	**5.9 (GSIP (2013),SDBL (2013)) [6.4 (GSIP (2013),SDBL (2013))]**	3.9	3.8
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	47 [50]	20	35
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	0.34 [0.32]	0.17	0.25
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	0.1 U [0.095 U]	0.07 U	0.13 U
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	13 [14]	8.1	8
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	**6.4 (GSIP (2013)) [6 (GSIP (2013))]**	**4 (GSIP (2013))**	**3.2 (GSIP (2013))**
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	13 [13]	9.4	17
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	**1 U [1 U]**	**1 U**	**0.2 U**
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	7.3 [7.3]	5	**24 (SDBL (2013))**
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	**250 J (GSIP (2013)) [220 J (GSIP (2013))]**	**230 J (GSIP (2013))**	**220 J (GSIP (2013))**
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	0.0126 J [0.0156 J]	0.00886 J	0.0273 J
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	16 [16]	12	7.5
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	0.23 U [0.18 U]	0.19 U	0.2 U
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	0.063 J [0.064 J]	0.044 J	0.028 J
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	0.17 [0.14 J]	0.091 J	0.11 J
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	22 [23]	13	14
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	36 J [36 J]	22 J	42 J
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	842,000 [846,000]	905,000	844,000

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-14 4.5 - 6.5 03/25/03	RFI-40-15 2 - 4 04/03/03	RFI-40-15 8 - 10 04/03/03	RFI-40-15 14 - 16 04/03/03	RFI-40-16 0 - 2 08/23/04
VOC													
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.04 U	0.04 U	0.043 U	0.039 U	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.079 UJ	0.08 U	0.087 U	0.078 U	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.17 U	0.17 U	0.19 U	0.17 U	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.04 U	0.04 U	0.043 U	0.039 U	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.04 U	0.04 U	0.043 U	0.039 U	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.04 U	0.04 U	0.043 U	0.039 U	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.17 U	0.17 U	0.19 U	0.17 U	NA
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	0.17 U	0.17 U	0.19 U	0.17 U	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	**0.17 U**	**0.17 U**	**0.19 U**	**0.17 U**	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.079 U	0.08 U	0.087 U	0.078 U	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.04 U	0.04 U	0.043 U	0.039 U	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.04 U	0.04 U	0.043 U	0.039 U	NA
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.079 U	0.08 U	0.087 U	0.078 U	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.079 U	0.08 U	0.087 U	0.078 U	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.34 UJ	0.34 UJ	0.37 UJ	0.34 UJ	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.079 UJ	0.08 U	0.087 U	0.078 U	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	1.7 UJ	1.7 U	1.9 U	1.7 U	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.34 UJ	0.08 J	0.37 U	0.34 U	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.04 U	0.04 U	0.043 U	0.039 U	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.079 U	0.08 U	0.087 U	0.078 U	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.079 U	0.08 U	0.087 U	0.078 U	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.17 U	0.17 U	0.19 U	0.17 UJ	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.17 UJ	0.17 U	0.19 U	0.17 UJ	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.04 U	0.04 U	0.043 U	0.039 U	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.04 U	0.04 U	0.043 U	0.039 U	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.17 U	0.17 U	0.19 U	0.17 U	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.04 U	0.04 U	0.043 U	0.039 U	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.17 U	0.17 U	0.19 U	0.17 U	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.04 U	0.04 U	0.043 U	0.039 U	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.04 U	0.04 U	0.043 U	0.039 U	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.17 U	0.19 U	0.17 U	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.079 U	0.08 U	0.087 U	0.078 U	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.079 U	0.08 U	0.087 U	0.078 U	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.04 U	0.04 U	0.043 U	0.039 U	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.17 U	0.17 U	0.19 U	0.17 U	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.079 U	0.08 U	0.087 U	0.078 U	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 UJ	0.12 J	0.19 UJ	0.17 UJ	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.17 UJ	0.17 U	0.19 U	0.17 U	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 UJ	0.17 U	0.19 U	0.17 U	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.13 J	0.14 J	0.17 J	0.12 J	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.04 U	0.04 U	0.043 U	0.039 U	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.04 U	0.04 U	0.043 U	0.039 U	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.04 U	0.04 U	0.043 U	0.039 U	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.079 U	0.08 U	0.087 U	0.078 U	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.04 U	0.04 U	0.043 U	0.039 U	NA

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-14 4.5 - 6.5 03/25/03	RFI-40-15 2 - 4 04/03/03	RFI-40-15 8 - 10 04/03/03	RFI-40-15 14 - 16 04/03/03	RFI-40-16 0 - 2 08/23/04
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.04 U	0.04 U	0.043 U	0.039 U	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.04 U	0.04 U	0.043 U	0.039 U	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.079 U	0.08 U	0.087 U	0.078 U	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.079 U	0.08 U	0.087 U	0.078 U	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.04 U	0.04 U	0.043 U	0.039 U	NA
SVOC													
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.2 U	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.2 U	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.76 U	0.79 U	0.84 U	0.78 U	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.76 U	0.79 U	0.84 U	0.78 U	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.2 U	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.2 U	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.76 U	0.79 U	0.84 U	0.78 U	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.39 UJ	0.4 UJ	0.43 UJ	0.39 UJ	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	0.76 U	0.79 U	0.84 U	0.78 U	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.76 U	0.79 U	0.84 U	0.78 U	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.76 U	0.79 U	0.84 U	0.78 U	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.2 U	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.76 U	0.79 U	0.84 U	0.78 U	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.76 U	0.79 U	0.84 U	0.78 U	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.76 U	0.79 UJ	0.84 UJ	0.78 UJ	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.76 U	0.79 U	0.84 U	0.78 U	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	**0.19 U**	**0.2 U**	**0.21 U**	**0.2 U**	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 UJ	0.2 U	0.21 U	0.2 U	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	0.19 U	0.0733 J	0.21 U	0.2 U	3.5
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.2 U	NA

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-14 4.5 - 6.5 03/25/03	RFI-40-15 2 - 4 04/03/03	RFI-40-15 8 - 10 04/03/03	RFI-40-15 14 - 16 04/03/03	RFI-40-16 0 - 2 08/23/04
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	0.038 U	0.039 U	0.041 U	0.038 U	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	0.19 UJ	0.2 U	0.21 U	0.2 U	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**0.19 U**	**0.2 U**	**0.21 U**	**0.2 U**	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.19 UJ	0.2 U	0.21 U	0.2 U	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.076 U	0.079 U	0.084 U	0.078 U	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	0.76 U	0.79 U	0.84 U	0.78 U	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.19 U	0.2 U	0.21 U	0.2 U	NA
Pyridine	mg/kg	37	{NA}	730 {(C)}	100,000	2	9.8	{NA}	NA	NA	NA	NA	NA
Volatile Organics													
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA
2-Ethanoxyethanol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
2-Nitropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA
Cyclohexanone	mg/kg	220,000	{NA}	1,000,000 {(C,D)}	29,000,000	32	1,300	{NA}	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA	NA
Ethyl acetate	mg/kg	7,500	{NA}	660,000 {(C)}	94,000,000	70,000 {(C)}	59,000	{NA}	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA
Isobutanol	mg/kg	8,900	{NA}	230,000 {(C)}	44,000,000	430,000 {(C)}	95,000	{NA}	NA	NA	NA	NA	NA

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-14 4.5 - 6.5 03/25/03	RFI-40-15 2 - 4 04/03/03	RFI-40-15 8 - 10 04/03/03	RFI-40-15 14 - 16 04/03/03	RFI-40-16 0 - 2 08/23/04
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA
n-Butanol	mg/kg	8,700	200	95,000 {(C)}	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA
PCB													
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.041 U	0.044 U	0.041 U	NA
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.041 U	0.044 U	0.041 U	NA
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.041 U	0.044 U	0.041 U	NA
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.041 U	0.044 U	0.041 U	NA
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.041 U	0.044 U	0.041 U	NA
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.041 U	0.044 U	0.041 U	NA
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.041 U	0.044 U	0.041 U	NA
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.04 U	0.041 U	0.044 U	0.041 U	NA
TPH													
Methanol	mg/kg	3,100	12,000 {(C)}	360,000 {(C)}	96,000,000	67,000 {(C)}	37,000	{NA}	NA	NA	NA	NA	NA
Inorganic													
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	0.015 J	0.16 UJ	0.18 UJ	0.01 J	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	4.6	4 J	**4.9 J (GSIP (2013))**	**4.8 J (GSIP (2013))**	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	41	65	**80 (SDBL (2013))**	29	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	0.3	0.3 J	0.61 J	0.2 J	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	0.096 U	0.13 U	0.11 U	0.1 U	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	12	13	**26 (SDBL (2013))**	9.8	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	**5 (GSIP (2013))**	**3.9 J (GSIP (2013))**	**9.5 J (GSIP (2013),SDBL (2013))**	**4.7 J (GSIP (2013))**	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	9.6	9.7 J	16 J	10 J	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	**1 U**	**0.2 U**	**0.3 U**	**1 (GSIP (2013),SDBL (2013))**	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	6	11 J	11 J	5.6 J	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	**190 J (GSIP (2013))**	**270 (GSIP (2013))**	**220 (GSIP (2013))**	**260 (GSIP (2013))**	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	0.0075 J	**0.0832 (GSIP (2013))**	0.0341 J	0.0456 J	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	13	9.6 J	**27 J (SDBL (2013))**	13 J	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	0.11 U	0.23 J	0.07 UJ	0.25 J	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	0.046 J	0.049 J	0.085 J	0.055 J	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	0.13 J	0.098 J	0.21	0.13 J	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	20	22 J	39 J	16 J	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	34 J	42 J	**49 J (SDBL (2013))**	31 J	NA
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	878,000	845,000	797,000	864,000	862,000

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-17 0 - 2 08/23/04	RFI-40-18 0 - 2 08/23/04	SB-40-01 1 - 3 09/17/13	SB-40-01 3 - 5 09/17/13	SB-40-05 0 - 2 09/18/13	SB-40-06 0 - 2 09/18/13	SB-40-07 0 - 2 09/18/13
VOC															
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA	NA

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-17 0 - 2 08/23/04	RFI-40-18 0 - 2 08/23/04	SB-40-01 1 - 3 09/17/13	SB-40-01 3 - 5 09/17/13	SB-40-05 0 - 2 09/18/13	SB-40-06 0 - 2 09/18/13	SB-40-07 0 - 2 09/18/13
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA	NA
SVOC															
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	**0.532 UX**	**0.562 UX**	**0.568 UX**
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	**0.532 UX**	**0.562 UX**	**0.568 UX**
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	**0.532 UX**	**0.562 UX**	**0.568 UX**
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	**0.532 UX**	**0.562 UX**	**0.568 UX**
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.83 U	0.83 U	0.83 U
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	**0.532 UX**	**0.562 UX**	**0.568 UX**
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.83 U	0.83 U	0.83 U
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	2 U	2 U	2 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.83 U	0.83 U	0.83 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.83 U	0.83 U	0.83 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	**0.532 UX**	**0.562 UX**	**0.568 UX**
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.83 U	0.83 U	0.83 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.83 U	0.83 U	0.83 U
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	0.851 X	1.427 X	2.712 X
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	2.702 X	3.618 X	7.531 X
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	10.532 X	13.326 X	22.667 X
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA	**10.489 X (NDC (2013))**	**15.326 XI (NDC (2013))**	**25.213 IX (NDC (2013))**
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	11.478 X	16.944 XI	27.41 XI
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	2.66 X	4.764 XI	8.152 XI
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	9.585 X	14.236 XI	23.213 XI
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-17 0 - 2 08/23/04	RFI-40-18 0 - 2 08/23/04	SB-40-01 1 - 3 09/17/13	SB-40-01 3 - 5 09/17/13	SB-40-05 0 - 2 09/18/13	SB-40-06 0 - 2 09/18/13	SB-40-07 0 - 2 09/18/13
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	**0.532 UX**	**0.562 UX**	**0.568 UX**
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.532 UX	0.753 X	1.015 X
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	1.17 X	1.427 X	1.318 X
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	11.383 X	14.697 X	25.077 X
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	1 X	1.169 XI	2.046 XI
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	0.532 UX	0.562 UX	1.273 X
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.532 UX	0.562 UXI	0.568 UXI
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	**21.148 X (GSIP (2013))**	**28.214 X (GSIP (2013))**	**49.608 X (GSIP (2013))**
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	0.777 X	1.124 X	2.424 X
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	**0.532 UX**	**0.562 UX**	**0.568 UX**
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	**0.532 UX**	**0.562 UX**	**0.568 UX**
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	2.702 X	4.337 XI	7.379 XI
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.532 U	0.562 U	0.568 U
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	0.532 UX	0.562 UX	0.636 X
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	**10.298 X (GSIP (2013))**	**15.865 X (GSIP (2013))**	**30.562 X (GSIP (2013))**
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	0.532 UX	0.562 UX	0.568 UX
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	23.084 X	34.225 X	64.896 X
Pyridine	mg/kg	37	{NA}	730 {(C)}	100,000	2	9.8	{NA}	NA	NA	NA	NA	NA	NA	NA
Volatile Organics															
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA	NA
2-Ethanoxyethanol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA	NA
Cyclohexanone	mg/kg	220,000	{NA}	1,000,000 {(C,D)}	29,000,000	32	1,300	{NA}	NA	NA	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethyl acetate	mg/kg	7,500	{NA}	660,000 {(C)}	94,000,000	70,000 {(C)}	59,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA	NA
Isobutanol	mg/kg	8,900	{NA}	230,000 {(C)}	44,000,000	430,000 {(C)}	95,000	{NA}	NA	NA	NA	NA	NA	NA	NA

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-17 0 - 2 08/23/04	RFI-40-18 0 - 2 08/23/04	SB-40-01 1 - 3 09/17/13	SB-40-01 3 - 5 09/17/13	SB-40-05 0 - 2 09/18/13	SB-40-06 0 - 2 09/18/13	SB-40-07 0 - 2 09/18/13
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA	NA
n-Butanol	mg/kg	8,700	200	95,000 {(C)}	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA	NA
PCB															
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	0.33 U	0.33 U	NA	NA	NA
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	0.33 U	0.33 U	NA	NA	NA
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	0.33 U	0.33 U	NA	NA	NA
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	0.33 U	0.33 U	NA	NA	NA
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	0.33 U	0.33 U	NA	NA	NA
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	0.33 U	0.33 U	NA	NA	NA
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	0.33 U	0.33 U	NA	NA	NA
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	NA	NA	0.33 U	0.33 U	NA	NA	NA
TPH															
Methanol	mg/kg	3,100	12,000 {(C)}	360,000 {(C)}	96,000,000	67,000 {(C)}	37,000	{NA}	NA	NA	NA	NA	NA	NA	NA
Inorganic															
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	837,000	809,000	860,000	820,000	940,000	890,000	880,000

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-40-08 0 - 2 09/18/13	SB-40-09 0 - 2 09/18/13	SB-40-10 0 - 2 09/18/13	SB-40-11 0 - 2 02/25/14	SB-40-12 0 - 2 02/25/14	SB-40-13 0 - 2 02/25/14
VOC														
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA	NA

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-40-08 0 - 2 09/18/13	SB-40-09 0 - 2 09/18/13	SB-40-10 0 - 2 09/18/13	SB-40-11 0 - 2 02/25/14	SB-40-12 0 - 2 02/25/14	SB-40-13 0 - 2 02/25/14
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA	NA
SVOC														
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	**0.568 UX**	**0.543 UX**	**0.362 UX**	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	**0.568 UX**	**0.543 UX**	**0.362 UX**	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	**0.568 UX**	**0.543 UX**	**0.362 UX**	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	**0.568 UX**	**0.543 UX**	**0.362 UX**	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	0.83 U	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	**0.568 UX**	**0.543 UX**	**0.362 UX**	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	0.83 U	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	2 U	2 U	2 U	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	0.83 U	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.83 U	0.83 U	0.83 U	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	**0.568 UX**	**0.543 UX**	**0.362 UX**	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	0.83 U	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.568 U	0.83 U	0.83 U	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	1.625 X	2.489 X	1.072 X	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	4.648 X	6.468 X	2.623 X	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	16.841 X	23.621 X	8.333 X	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	**19.398 XI (NDC (2013))**	**26.892 XI (NDC (2013))**	**8.71 X (NDC (2013))**	5	0.6	0.6
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	21.33 XI	29.795 XI	8.913 X	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	5.046 XI	9.142 XI	2.094 X	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	17.637 IX	25.903 XI	7.819 X	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-40-08 0 - 2 09/18/13	SB-40-09 0 - 2 09/18/13	SB-40-10 0 - 2 09/18/13	SB-40-11 0 - 2 02/25/14	SB-40-12 0 - 2 02/25/14	SB-40-13 0 - 2 02/25/14
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	**0.568 UX**	**0.543 UX**	**0.362 UX**	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.909 X	1.717 X	0.406 X	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	1.205 X	1.946 X	0.399 X	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	18.387 X	25.751 X	8.783 X	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	1.114 XI	2.174 XI	0.674 X	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	0.716 X	1.033 X	0.399 X	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.568 UX	0.543 UX	4.246 X	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.568 UXI	0.543 UXI	0.362 UX	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	**34.49 X (GSIP (2013))**	**46.882 X (GSIP (2013))**	**17.899 X (GSIP (2013))**	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	1.341 X	1.989 X	0.804 X	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	**0.568 UX**	**0.543 UX**	**0.362 UX**	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**0.568 UX**	**0.543 UX**	**0.362 UX**	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	4.852 XI	7.718 XI	2.21 X	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.568 U	0.543 U	0.362 U	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.568 UX	**0.794 X (GSIP (2013))**	0.362 UX	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	**18.967 X (GSIP (2013))**	**26.49 X (GSIP (2013))**	**10.645 X (GSIP (2013))**	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.568 UX	0.543 UX	0.362 UX	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	42.57 X	69.144 X	18.152 X	NA	NA	NA
Pyridine	mg/kg	37	{NA}	730 {(C)}	100,000	2	9.8	{NA}	NA	NA	NA	NA	NA	NA
Volatile Organics														
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA	NA
2-Ethanoxyethanol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
2-Nitropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA	NA
Cyclohexanone	mg/kg	220,000	{NA}	1,000,000 {(C,D)}	29,000,000	32	1,300	{NA}	NA	NA	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA	NA	NA	NA
Ethyl acetate	mg/kg	7,500	{NA}	660,000 {(C)}	94,000,000	70,000 {(C)}	59,000	{NA}	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA	NA
Isobutanol	mg/kg	8,900	{NA}	230,000 {(C)}	44,000,000	430,000 {(C)}	95,000	{NA}	NA	NA	NA	NA	NA	NA

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-40-08 0 - 2 09/18/13	SB-40-09 0 - 2 09/18/13	SB-40-10 0 - 2 09/18/13	SB-40-11 0 - 2 02/25/14	SB-40-12 0 - 2 02/25/14	SB-40-13 0 - 2 02/25/14
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA	NA
n-Butanol	mg/kg	8,700	200	95,000 {(C)}	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA	NA
PCB														
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	NA	NA	NA	NA	NA	NA
TPH														
Methanol	mg/kg	3,100	12,000 {(C)}	360,000 {(C)}	96,000,000	67,000 {(C)}	37,000	{NA}	NA	NA	NA	NA	NA	NA
Inorganic														
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA	NA
Miscellaneous														
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	880,000	920,000	920,000	820,000	800,000	900,000

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-40-14 0 - 2 02/25/14	SB-40-15 0 - 2 02/25/14	WMU7_SB1 15.5 - 16 01/23/12	WMU7_SB2 14.5 - 15 01/23/12	WMU7_SB3 15.5 - 16 01/24/12
VOC													
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	0.07 U	0.07 U	0.07 U
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	0.07 U	0.07 U	0.07 U
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA	NA	NA

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-40-14 0 - 2 02/25/14	SB-40-15 0 - 2 02/25/14	WMU7_SB1 15.5 - 16 01/23/12	WMU7_SB2 14.5 - 15 01/23/12	WMU7_SB3 15.5 - 16 01/24/12
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA	NA	NA
SVOC													
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.3 U	0.3 U	0.3 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.3 U	0.3 U	0.3 U
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	0.3 U [0.7]	1.2	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-40-14 0 - 2 02/25/14	SB-40-15 0 - 2 02/25/14	WMU7_SB1 15.5 - 16 01/23/12	WMU7_SB2 14.5 - 15 01/23/12	WMU7_SB3 15.5 - 16 01/24/12
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	0.3 U	0.3 U	0.3 U
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	0.3 U	0.3 U	0.3 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA	NA	NA
Pyridine	mg/kg	37	{NA}	730 {(C)}	100,000	2	9.8	{NA}	NA	NA	0.3 U	0.3 U	0.3 U
Volatile Organics													
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	0.07 U	0.07 U	0.07 U
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	0.07 U	0.07 U	0.07 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	0.07 U	0.07 U	0.07 U
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	7 U	7 U	7 U
2-Ethanoxyethanol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	1 U	1 U	1 U
2-Nitropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	7 U	7 U	7 U
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	7 U	7 U	7 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	7 U	7 U	7 U
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	0.07 U	0.07 U	0.07 U
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	7 U	7 U	7 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	0.07 U	0.07 U	0.07 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	0.07 U	0.07 U	0.07 U
Cyclohexanone	mg/kg	220,000	{NA}	1,000,000 {(C,D)}	29,000,000	32	1,300	{NA}	NA	NA	7 U	7 U	7 U
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	7 U	7 U	7 U
Ethyl acetate	mg/kg	7,500	{NA}	660,000 {(C)}	94,000,000	70,000 {(C)}	59,000	{NA}	NA	NA	7 U	7 U	7 U
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	0.07 U	0.07 U	0.07 U
Isobutanol	mg/kg	8,900	{NA}	230,000 {(C)}	44,000,000	430,000 {(C)}	95,000	{NA}	NA	NA	70 U	70 U	70 U

Table J-2

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-40-14 0 - 2 02/25/14	SB-40-15 0 - 2 02/25/14	WMU7_SB1 15.5 - 16 01/23/12	WMU7_SB2 14.5 - 15 01/23/12	WMU7_SB3 15.5 - 16 01/24/12
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.07 U	0.07 U	0.07 U
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	0.07 U	0.07 U	0.07 U
n-Butanol	mg/kg	8,700	200	95,000 {(C)}	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	70 U	70 U	70 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.07 U	0.07 U	0.07 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	0.07 U	0.07 U	0.07 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	0.07 U	0.07 U	0.07 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	0.07 U	0.07 U	0.07 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	0.07 U	0.07 U	0.07 U
PCB													
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	NA	NA	NA	NA	NA
TPH													
Methanol	mg/kg	3,100	12,000 {(C)}	360,000 {(C)}	96,000,000	67,000 {(C)}	37,000	{NA}	NA	NA	13 O	10 O	10 O
Inorganic													
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	800,000 [790,000]	820,000	850,000	840,000	810,000

Table J-3

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	RFI-16-04 05/29/01	RFI-16-08 09/17/02	RFI-16-10 07/27/01	RFI-40-02R_LNAPL 09/27/13	RFI-40-14R 10/06/04
VOC						
1,1,1-Trichloroethane	mg/kg	NA	NA	25 UJ	NA	5 U
1,1,1-Trichloroethane	ug/L	1.0 U	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	25 UJ	NA	5 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	NA	NA	130 U	NA	10 U
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	1.0 U	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	NA	NA	24 J	NA	5 U
1,1,2-Trichloroethane	ug/L	1.0 U	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	NA	NA	25 UJ	NA	5 U
1,1-Dichloroethane	ug/L	1.0 U	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	NA	NA	25 UJ	NA	5 U
1,1-Dichloroethene	ug/L	1.0 U	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	25 UJ	NA	10 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	NA	NA	NA	NA
1,2,4-Trimethylbenzene	ug/L	1.0 U	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	NA	NA	25 UJ	NA	5 U
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	NA	NA	25 UJ	NA	5 U
1,2-Dibromoethane	ug/L	1.0 U	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	25 UJ	NA	5 U
1,2-Dichlorobenzene	ug/L	1.0 U	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	NA	NA	25 UJ	NA	5 U
1,2-Dichloroethane	ug/L	1.0 U	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	NA	NA	25 UJ	NA	5 U
1,2-Dichloropropane	ug/L	1.0 U	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/L	1.0 U	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	25 UJ	NA	5 U
1,3-Dichlorobenzene	ug/L	1.0 U	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	25 UJ	NA	5 U
1,4-Dichlorobenzene	ug/L	1.0 U	NA	NA	NA	NA
2-Butanone	mg/kg	NA	NA	130 UJ	NA	80 U
2-Butanone	ug/L	2.4 J	NA	NA	NA	NA
2-Hexanone	mg/kg	NA	NA	130 UJ	NA	300 U
2-Hexanone	ug/L	50 U	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	NA	NA	130 UJ	NA	300 U
4-Methyl-2-pentanone	ug/L	50 U	NA	NA	NA	NA
Acetone	mg/kg	NA	NA	130 UJ	NA	80 U
Acetone	ug/L	9.3 J	NA	NA	NA	NA

Table J-3

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	RFI-16-04 05/29/01	RFI-16-08 09/17/02	RFI-16-10 07/27/01	RFI-40-02R_LNAPL 09/27/13	RFI-40-14R 10/06/04
Benzene	mg/kg	NA	NA	25 UJ	NA	13
Benzene	ug/L	0.26 J	NA	NA	NA	NA
Bromodichloromethane	mg/kg	NA	NA	25 UJ	NA	5 U
Bromodichloromethane	ug/L	1.0 U	NA	NA	NA	NA
Bromoform	mg/kg	NA	NA	25 UJ	NA	5 UJ
Bromoform	ug/L	1.0 U	NA	NA	NA	NA
Bromomethane	mg/kg	NA	NA	25 UJ	NA	30 UJ
Bromomethane	ug/L	1.0 U	NA	NA	NA	NA
Carbon Disulfide	mg/kg	NA	NA	25 UJ	NA	30 UJ
Carbon Disulfide	ug/L	5.0 U	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	NA	NA	25 UJ	NA	5 U
Carbon Tetrachloride	ug/L	1.0 U	NA	NA	NA	NA
Chlorobenzene	mg/kg	NA	NA	25 UJ	NA	5 U
Chlorobenzene	ug/L	1.4	NA	NA	NA	NA
Chloroethane	mg/kg	NA	NA	25 UJ	NA	30 UJ
Chloroethane	ug/L	1.0 U	NA	NA	NA	NA
Chloroform	mg/kg	NA	NA	25 UJ	NA	5 U
Chloroform	ug/L	1.0 U	NA	NA	NA	NA
Chloromethane	mg/kg	NA	NA	25 UJ	NA	30 U
Chloromethane	ug/L	1.0 U	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	NA	NA	25 UJ	NA	5 U
cis-1,2-Dichloroethene	ug/L	1.1	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	NA	NA	25 UJ	NA	5 U
cis-1,3-Dichloropropene	ug/L	1.0 U	NA	NA	NA	NA
Cyclohexane	mg/kg	NA	NA	120 J	NA	20 J
Cyclohexane	ug/L	0.45 J	NA	NA	NA	NA
Dibromochloromethane	mg/kg	NA	NA	25 UJ	NA	5 U
Dibromochloromethane	ug/L	1.0 U	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	NA	NA	25 UJ	NA	5 UJ
Dichlorodifluoromethane	ug/L	1.0 U	NA	NA	NA	NA
Ethylbenzene	mg/kg	NA	NA	25 UJ	NA	5 U
Ethylbenzene	ug/L	0.16 J	NA	NA	NA	NA
Isopropylbenzene	mg/kg	NA	NA	150 J	NA	5 U
Isopropylbenzene	ug/L	0.53 J	NA	NA	NA	NA
m&p-Xylene	mg/kg	NA	NA	50 UJ	NA	5 U
m&p-Xylene	ug/L	0.17 J	NA	NA	NA	NA
Methyl acetate	mg/kg	NA	NA	130 UJ	NA	300 U
Methyl acetate	ug/L	5.0 U	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	NA	NA	25 UJ	NA	30 U

Table J-3

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	RFI-16-04 05/29/01	RFI-16-08 09/17/02	RFI-16-10 07/27/01	RFI-40-02R_LNAPL 09/27/13	RFI-40-14R 10/06/04
Methyl tert-butyl ether	ug/L	5.0 U	NA	NA	NA	NA
Methylcyclohexane	mg/kg	NA	NA	540 J	NA	10
Methylcyclohexane	ug/L	2.7	NA	NA	NA	NA
Methylene Chloride	mg/kg	NA	NA	130 UJ	NA	30 U
Methylene Chloride	ug/L	5.0 UJ	NA	NA	NA	NA
o-Xylene	mg/kg	NA	NA	25 UJ	NA	5 U
o-Xylene	ug/L	0.12 J	NA	NA	NA	NA
Styrene	mg/kg	NA	NA	25 UJ	NA	5 U
Styrene	ug/L	1.0 U	NA	NA	NA	NA
Tetrachloroethene	mg/kg	NA	NA	25 UJ	NA	5 U
Tetrachloroethene	ug/L	1.0 U	NA	NA	NA	NA
Toluene	mg/kg	NA	NA	25 UJ	NA	5 U
Toluene	ug/L	0.11 J	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	NA	NA	25 UJ	NA	5 U
trans-1,2-Dichloroethene	ug/L	1.0 U	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	NA	NA	25 UJ	NA	5 U
trans-1,3-Dichloropropene	ug/L	1.0 U	NA	NA	NA	NA
Trichloroethene	mg/kg	NA	NA	25 UJ	NA	5 U
Trichloroethene	ug/L	5.1	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	NA	NA	25 UJ	NA	10 U
Trichlorofluoromethane	ug/L	1.0 U	NA	NA	NA	NA
Vinyl Chloride	mg/kg	NA	NA	25 UJ	NA	10 U
Vinyl Chloride	ug/L	1.0 U	NA	NA	NA	NA
Xylenes (total)	mg/kg	NA	NA	25 U	NA	5 U
Xylenes (total)	ug/L	0.12 J	NA	NA	NA	NA
SVOC						
1,1'-Biphenyl	mg/kg	NA	NA	50 UJ	NA	10,000 U
1,1'-Biphenyl	ug/L	R	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	NA	NA	50 U	NA	10,000 U
2,2'-Oxybis(1-Chloropropane)	ug/L	R	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	NA	NA	50 UJ	NA	10,000 U
2,4,5-Trichlorophenol	ug/L	R	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	NA	NA	50 UJ	NA	10,000 U
2,4,6-Trichlorophenol	ug/L	R	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	NA	NA	50 U	NA	10,000 U
2,4-Dichlorophenol	ug/L	R	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	NA	NA	50 U	NA	10,000 U
2,4-Dimethylphenol	ug/L	R	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	NA	NA	200 U	NA	20,000 U

Table J-3

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	RFI-16-04 05/29/01	RFI-16-08 09/17/02	RFI-16-10 07/27/01	RFI-40-02R_LNAPL 09/27/13	RFI-40-14R 10/06/04
2,4-Dinitrophenol	ug/L	R	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	NA	NA	50 U	NA	10,000 U
2,4-Dinitrotoluene	ug/L	R	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	NA	NA	50 U	NA	10,000 U
2,6-Dinitrotoluene	ug/L	R	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	NA	NA	50 UJ	NA	10,000 U
2-Chloronaphthalene	ug/L	R	NA	NA	NA	NA
2-Chlorophenol	mg/kg	NA	NA	50 U	NA	10,000 U
2-Chlorophenol	ug/L	R	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	NA	NA	10,000 JD	NA	10,000 U
2-Methylnaphthalene	ug/L	0.97 J	NA	NA	NA	NA
2-Methylphenol	mg/kg	NA	NA	50 U	NA	10,000 U
2-Methylphenol	ug/L	R	NA	NA	NA	NA
2-Nitroaniline	mg/kg	NA	NA	200 UJ	NA	20,000 U
2-Nitroaniline	ug/L	R	NA	NA	NA	NA
2-Nitrophenol	mg/kg	NA	NA	50 U	NA	10,000 U
2-Nitrophenol	ug/L	R	NA	NA	NA	NA
3&4-Methylphenol	mg/kg	NA	NA	99 UJ	NA	NA
3&4-Methylphenol	ug/L	R	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	NA	NA	200 U	NA	20,000 U
3,3'-Dichlorobenzidine	ug/L	R	NA	NA	NA	NA
3-Methylphenol	mg/kg	NA	NA	NA	NA	10,000 U
3-Nitroaniline	mg/kg	NA	NA	200 U	NA	20,000 U
3-Nitroaniline	ug/L	R	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	NA	200 UJ	NA	20,000 U
4,6-Dinitro-2-methylphenol	ug/L	R	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	NA	NA	50 UJ	NA	10,000 U
4-Bromophenyl-phenylether	ug/L	R	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	NA	NA	50 U	NA	10,000 U
4-Chloro-3-Methylphenol	ug/L	R	NA	NA	NA	NA
4-Chloroaniline	mg/kg	NA	NA	200 U	NA	20,000 U
4-Chloroaniline	ug/L	R	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	NA	NA	50 U	NA	10,000 U
4-Chlorophenyl-phenylether	ug/L	R	NA	NA	NA	NA
4-Nitroaniline	mg/kg	NA	NA	200 U	NA	20,000 U
4-Nitroaniline	ug/L	R	NA	NA	NA	NA
4-Nitrophenol	mg/kg	NA	NA	200 U	NA	20,000 U
4-Nitrophenol	ug/L	R	NA	NA	NA	NA
Acenaphthene	mg/kg	NA	NA	50 U	NA	10,000 U

Table J-3

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	RFI-16-04 05/29/01	RFI-16-08 09/17/02	RFI-16-10 07/27/01	RFI-40-02R_LNAPL 09/27/13	RFI-40-14R 10/06/04
Acenaphthene	ug/L	R	NA	NA	NA	NA
Acenaphthylene	mg/kg	NA	NA	50 U	NA	10,000 U
Acenaphthylene	ug/L	R	NA	NA	NA	NA
Acetophenone	mg/kg	NA	NA	50 U	NA	10,000 U
Acetophenone	ug/L	R	NA	NA	NA	NA
Anthracene	mg/kg	NA	NA	50 UJ	NA	10,000 U
Anthracene	ug/L	R	NA	NA	NA	NA
Atrazine	mg/kg	NA	NA	50 UJ	NA	10,000 U
Atrazine	ug/L	R	NA	NA	NA	NA
Benzaldehyde	mg/kg	NA	NA	50 U	NA	10,000 U
Benzaldehyde	ug/L	R	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	NA	NA	17 J	NA	10,000 U
Benzo(a)anthracene	ug/L	1.32 J	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	NA	NA	6.6 J	NA	10,000 U
Benzo(a)pyrene	ug/L	R	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	NA	NA	50 U	NA	10,000 U
Benzo(b)fluoranthene	ug/L	R	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	NA	NA	50 U	NA	10,000 U
Benzo(g,h,i)perylene	ug/L	R	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	NA	NA	50 U	NA	10,000 U
Benzo(k)fluoranthene	ug/L	R	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	NA	NA	50 U	NA	10,000 U
bis(2-Chloroethoxy)methane	ug/L	R	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	NA	NA	50 U	NA	10,000 U
bis(2-Chloroethyl)ether	ug/L	R	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	14 J	NA	10,000 U
bis(2-Ethylhexyl)phthalate	ug/L	8.38 J	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	NA	NA	50 U	NA	10,000 U
Butylbenzylphthalate	ug/L	R	NA	NA	NA	NA
Caprolactam	mg/kg	NA	NA	50 U	NA	10,000 U
Caprolactam	ug/L	R	NA	NA	NA	NA
Carbazole	mg/kg	NA	NA	50 UJ	NA	10,000 U
Carbazole	ug/L	R	NA	NA	NA	NA
Chrysene	mg/kg	NA	NA	34 J	NA	10,000 U
Chrysene	ug/L	1.64 J	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	NA	NA	50 U	NA	10,000 U
Dibenzo(a,h)anthracene	ug/L	R	NA	NA	NA	NA
Dibenzofuran	mg/kg	NA	NA	50 U	NA	10,000 U
Dibenzofuran	ug/L	R	NA	NA	NA	NA

Table J-3

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
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RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	RFI-16-04 05/29/01	RFI-16-08 09/17/02	RFI-16-10 07/27/01	RFI-40-02R_LNAPL 09/27/13	RFI-40-14R 10/06/04
Diethylphthalate	mg/kg	NA	NA	50 U	NA	10,000 U
Diethylphthalate	ug/L	R	NA	NA	NA	NA
Dimethylphthalate	mg/kg	NA	NA	50 UJ	NA	10,000 U
Dimethylphthalate	ug/L	R	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	NA	NA	50 UJ	NA	10,000 U
Di-n-Butylphthalate	ug/L	R	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	NA	NA	50 U	NA	10,000 U
Di-n-Octylphthalate	ug/L	R	NA	NA	NA	NA
Fluoranthene	mg/kg	NA	NA	120 J	NA	10,000 U
Fluoranthene	ug/L	1.07 J	NA	NA	NA	NA
Fluorene	mg/kg	NA	NA	50 U	NA	10,000 U
Fluorene	ug/L	R	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	NA	NA	50 UJ	NA	10,000 U
Hexachlorobenzene	ug/L	R	NA	NA	NA	NA
Hexachlorobutadiene	mg/kg	NA	NA	50 U	NA	10,000 U
Hexachlorobutadiene	ug/L	R	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	NA	NA	50 UJ	NA	10,000 U
Hexachlorocyclopentadiene	ug/L	R	NA	NA	NA	NA
Hexachloroethane	mg/kg	NA	NA	50 U	NA	10,000 U
Hexachloroethane	ug/L	R	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	NA	NA	50 U	NA	10,000 U
Indeno(1,2,3-cd)pyrene	ug/L	R	NA	NA	NA	NA
Isophorone	mg/kg	NA	NA	50 U	NA	10,000 U
Isophorone	ug/L	R	NA	NA	NA	NA
Methylphenols, Total	mg/kg	NA	NA	50 U	NA	10,000 U
Methylphenols, Total	ug/L	R	NA	NA	NA	NA
Naphthalene	mg/kg	NA	NA	3,600 JD	NA	10,000 U
Naphthalene	ug/L	R	NA	NA	NA	NA
Nitrobenzene	mg/kg	NA	NA	50 U	NA	10,000 U
Nitrobenzene	ug/L	R	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	NA	NA	50 U	NA	10,000 U
N-Nitroso-di-n-propylamine	ug/L	R	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	NA	NA	50 UJ	NA	10,000 U
N-Nitrosodiphenylamine	ug/L	R	NA	NA	NA	NA
Pentachlorophenol	mg/kg	NA	NA	200 UJ	NA	20,000 U
Pentachlorophenol	ug/L	R	NA	NA	NA	NA
Phenanthrene	mg/kg	NA	NA	2,300 JD	NA	10,000 U
Phenanthrene	ug/L	R	NA	NA	NA	NA
Phenol	mg/kg	NA	NA	50 U	NA	10,000 U

Table J-3

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
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RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	RFI-16-04 05/29/01	RFI-16-08 09/17/02	RFI-16-10 07/27/01	RFI-40-02R_LNAPL 09/27/13	RFI-40-14R 10/06/04
Phenol	ug/L	R	NA	NA	NA	NA
Pyrene	mg/kg	NA	NA	290 J	NA	10,000 U
Pyrene	ug/L	2.36 J	NA	NA	NA	NA
PCB						
Aroclor-1016	mg/kg	NA	NA	0.98 U	2 UX	1 U
Aroclor-1016	ug/L	0.10 U	NA	NA	NA	NA
Aroclor-1221	mg/kg	NA	NA	0.98 U	2 UX	1 U
Aroclor-1221	ug/L	0.10 U	NA	NA	NA	NA
Aroclor-1232	mg/kg	NA	NA	0.98 U	2 UX	1 U
Aroclor-1232	ug/L	0.10 U	NA	NA	NA	NA
Aroclor-1242	mg/kg	NA	NA	0.98 U	2 UX	1 U
Aroclor-1242	ug/L	0.10 U	NA	NA	NA	NA
Aroclor-1248	mg/kg	NA	NA	0.98 U	2 UX	1 U
Aroclor-1248	ug/L	0.10 U	NA	NA	NA	NA
Aroclor-1254	mg/kg	NA	NA	0.98 U	2 UX	1 U
Aroclor-1254	ug/L	0.36 J	NA	NA	NA	NA
Aroclor-1260	mg/kg	NA	NA	0.98 U	2 UX	1 U
Aroclor-1260	ug/L	0.10 U	NA	NA	NA	NA
Total PCBs	mg/kg	NA	NA	0.98 U	2 U	1 U
Total PCBs	ug/L	0.36 J	NA	NA	NA	NA
Inorganic						
Antimony	mg/kg	NA	NA	0.61 U	NA	0.5 U
Antimony	ug/L	3.4 J	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	8.5	NA	0.1 U
Arsenic	ug/L	12	NA	NA	NA	NA
Barium	mg/kg	NA	NA	1.1 J	NA	1 U
Barium	ug/L	300 J	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	0.3 U	NA	0.1 U
Beryllium	ug/L	0.98	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	0.026 J	NA	0.05 U
Cadmium	ug/L	1.3	NA	NA	NA	NA
Chromium Total	mg/kg	NA	NA	3.9 J	NA	0.5 U
Chromium Total	ug/L	26	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	0.61 U	NA	0.5 U
Cobalt	ug/L	11	NA	NA	NA	NA
Copper	mg/kg	NA	NA	2.3	NA	3.2
Copper	ug/L	110	NA	NA	NA	NA
Cyanide (total)	mg/kg	NA	NA	0.2 U	NA	10 U
Cyanide (total)	ug/L	5 U	NA	NA	NA	NA

Table J-3

Priority #11 - AOI 40-A, -B and 16-C Fuel Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	RFI-16-04 05/29/01	RFI-16-08 09/17/02	RFI-16-10 07/27/01	RFI-40-02R_LNAPL 09/27/13	RFI-40-14R 10/06/04
Lead	mg/kg	NA	NA	22 J	NA	0.5 U
Lead	ug/L	100 J	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	0.29 J	NA	0.5 U
Manganese	ug/L	610 J	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	0.02 U	NA	0.05 U
Mercury	ug/L	0.2 U	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	0.33 J	NA	0.5 U
Nickel	ug/L	44	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	0.24 J	NA	0.5 U
Selenium	ug/L	2.9	NA	NA	NA	NA
Silver	mg/kg	NA	NA	0.61 U	NA	0.2 U
Silver	ug/L	0.73 J	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	0.61 U	NA	0.1 U
Thallium	ug/L	0.49	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	0.53	NA	0.5 U
Vanadium	ug/L	41	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	4.7 J	NA	1 U
Zinc	ug/L	240	NA	NA	NA	NA
Miscellaneous						
Ignitability	deg f	NA	110	NA	NA	NA
Interfacial Tension	dynes/cm	NA	NA	18	NA	NA
Specific gravity	sg	NA	NA	0.86	NA	NA
Total Solids	mg/kg	NA	NA	NA	NA	930,000
Viscosity	cp	NA	NA	2.67	NA	NA

Table K-1

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	11-120 09/25/01
VOC						
1,1,1-Trichloroethane	ug/L	{ID}	89	1,300,000 {(S)}	1,330,000	1 U [1 U]
1,1,2,2-Tetrachloroethane	ug/L	{ID}	78 {(X)}	77,000	2,970,000	1 UJ [1 UJ]
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	32	170,000 {(S)}	170,000	1 U [1 U]
1,1,2-Trichloroethane	ug/L	{NA}	330 {(X)}	110,000	4,420,000	1 U [1 U]
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	1 U [1 U]
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	1 U [1 U]
1,2,4-Trichlorobenzene	ug/L	{NA}	99 {(X)}	300,000 {(S)}	300,000	5 U [5 U]
1,2-Dibromo-3-chloropropane	ug/L	{NA}	{ID}	1,200 {(S)}	1,230	1 U [1 U]
1,2-Dibromoethane	ug/L	{ID}	5.7 {(X)}	15,000	4,200,000	1 U [1 U]
1,2-Dichlorobenzene	ug/L	{NA}	13	160,000 {(S)}	156,000	1 U [1 U]
1,2-Dichloroethane	ug/L	2,500,000	360 {(X)}	59,000	8,520,000	1 U [1 U]
1,2-Dichloropropane	ug/L	550,000	230 {(X)}	36,000	2,800,000	1 U [1 U]
1,3-Dichlorobenzene	ug/L	{ID}	28	41,000	111,000	1 U [1 U]
1,4-Dichlorobenzene	ug/L	{NA}	17	74,000 {(S)}	73,800	1 U [1 U]
2-Butanone	ug/L	{ID}	2,200	240,000,000 {(S)}	240,000,000	25 U [25 U]
2-Hexanone	ug/L	{NA}	{ID}	8,700,000	16,000,000	50 U [50 U]
4-Methyl-2-pentanone	ug/L	{ID}	{ID}	20,000,000 {(S)}	20,000,000	50 U [50 U]
Acetone	ug/L	15,000,000	1,700	1,000,000,000 {(D,S)}	1,000,000,000	25 U [25 U]
Benzene	ug/L	68,000	200 {(X)}	35,000	1,750,000	1 U [1 U]
Bromodichloromethane	ug/L	{ID}	{ID}	37,000	6,740,000	1 U [1 U]
Bromoform	ug/L	{ID}	{ID}	3,100,000 {(S)}	3,100,000	1 U [1 U]
Bromomethane	ug/L	{ID}	35	9,000	14,500,000	1 U [1 U]
Carbon Disulfide	ug/L	13,000	{ID}	550,000	1,190,000	5 U [5 U]
Carbon Tetrachloride	ug/L	{ID}	45 {(X)}	2,400	793,000	1 U [1 U]
Chlorobenzene	ug/L	160,000	25	470,000 {(S)}	472,000	1 U [1 U]
Chloroethane	ug/L	110,000	1,100 {(X)}	5,700,000 {(S)}	5,740,000	1 U [1 U]

Table K-1

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	11-120 09/25/01
Chloroform	ug/L	{ID}	350	180,000	7,920,000	1 U [1 U]
Chloromethane	ug/L	36,000	{ID}	45,000	6,340,000	1 U [1 U]
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	1 U [1 U]
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U [1 U]
Cyclohexane	ug/L	- -	- -	- -	- -	5 U [5 U]
Dibromochloromethane	ug/L	{ID}	{ID}	110,000	2,600,000	1 U [1 U]
Dichlorodifluoromethane	ug/L	{ID}	{ID}	300,000 {(S)}	300,000	1 U [1 U]
Ethylbenzene	ug/L	43,000	18	170,000 {(S)}	169,000	1 U [1 U]
Isopropylbenzene	ug/L	29,000	28	56,000 {(S)}	56,000	5 U [5 U]
m&p-Xylene	ug/L	- -	- -	- -	- -	2 U [2 U]
Methyl acetate	ug/L	- -	- -	- -	- -	5 U [5 U]
Methyl tert-butyl ether	ug/L	{ID}	7,100 {(X)}	47,000,000 {(S)}	46,800,000	5 U [5 U]
Methylcyclohexane	ug/L	- -	- -	- -	- -	1 U [1 U]
Methylene Chloride	ug/L	{ID}	1,500 {(X)}	1,400,000	17,000,000	5 U [5 U]
o-Xylene	ug/L	- -	- -	- -	- -	1 U [1 U]
Styrene	ug/L	140,000	80 {(X)}	310,000 {(S)}	310,000	1 U [1 U]
Tetrachloroethene	ug/L	{ID}	60 {(X)}	170,000	200,000	1 U [1 U]
Toluene	ug/L	61,000	270	530,000 {(S)}	526,000	1 U [1 U]
trans-1,2-Dichloroethene	ug/L	230,000	1,500 {(X)}	200,000	6,300,000	1 U [1 U]
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U [1 U]
Trichloroethene	ug/L	{ID}	200 {(X)}	4,900	1,100,000	1 U [1 U]
Trichlorofluoromethane	ug/L	{ID}	{NA}	1,100,000 {(S)}	1,100,000	1 U [1 U]
Vinyl Chloride	ug/L	33,000	13 {(X)}	13,000	2,760,000	1 U [1 U]
Xylenes (total)	ug/L	70,000	41	190,000 {(S)}	186,000	1 U [1 U]
SVOC						
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	5 U [5 U]
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	5 U [5 U]

Table K-1

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	11-120 09/25/01
2,4,5-Trichlorophenol	ug/L	{ID}	{NA}	{NLV}	1,200,000	5 U [5 U]
2,4,6-Trichlorophenol	ug/L	{ID}	5	{NLV}	800,000	4 U [4 U]
2,4-Dichlorophenol	ug/L	{ID}	11	{NLV}	4,500,000	10 U [10 U]
2,4-Dimethylphenol	ug/L	{ID}	380	{NLV}	7,870,000	5 U [5 U]
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	20 U [20 U]
2,4-Dinitrotoluene	ug/L	{ID}	{NA}	{NLV}	270,000	5 U [5 U]
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	5 U [5 U]
2-Chloronaphthalene	ug/L	{ID}	{NA}	{ID}	6,740	5 U [5 U]
2-Chlorophenol	ug/L	{ID}	18	1,100,000	22,000,000	5 U [5 U]
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	5 U [5 U]
2-Methylphenol	ug/L	- -	- -	- -	- -	5 U [5 U]
2-Nitroaniline	ug/L	- -	- -	- -	- -	20 U [20 U]
2-Nitrophenol	ug/L	{ID}	{ID}	{NLV}	2,500,000	5 U [5 U]
3&4-Methylphenol	ug/L	- -	- -	- -	- -	10 U [10 U]
3,3'-Dichlorobenzidine	ug/L	{ID}	0.3 {(M); 0.2}	{NLV}	3,110	**20 U [20 U]**
3-Nitroaniline	ug/L	- -	- -	- -	- -	20 U [20 U]
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	20 U [20 U]
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	5 U [5 U]
4-Chloro-3-Methylphenol	ug/L	{ID}	7.4	{NLV}	3,900,000	5 U [5 U]
4-Chloroaniline	ug/L	- -	- -	- -	- -	20 U [20 U]
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	5 U [5 U]
4-Nitroaniline	ug/L	- -	- -	- -	- -	20 U [20 U]
4-Nitrophenol	ug/L	- -	- -	- -	- -	20 U [20 U]
Acenaphthene	ug/L	{ID}	38	4,200 {(S)}	4,240	5 U [5 U]
Acenaphthylene	ug/L	{ID}	{ID}	3,900 {(S)}	3,930	5 U [5 U]
Acetophenone	ug/L	{ID}	{ID}	6,100,000 {(S)}	6,100,000	5 U [5 U]
Anthracene	ug/L	{ID}	{ID}	43 {(S)}	43.4	5 U [5 U]
Atrazine	ug/L	{ID}	7.3	{NLV}	70,000	5 U [5 U]

Table K-1

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	11-120 09/25/01
Benzaldehyde	ug/L	- -	- -	- -	- -	5 U [5 U]
Benzo(a)anthracene	ug/L	{ID}	{ID}	{NLV}	9.4	1 U [1 U]
Benzo(a)pyrene	ug/L	{ID}	{ID}	{NLV}	1.62	**2 U [2 U]**
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	{ID}	1.5	**2 U [2 U]**
Benzo(g,h,i)perylene	ug/L	{ID}	{ID}	{NLV}	0.26	**5 U [5 U]**
Benzo(k)fluoranthene	ug/L	{ID}	{NA}	{NLV}	0.8	**5 U [5 U]**
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	5 U [5 U]
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	1 {(M); 0.79}	210,000	17,200,000	1 U [1 U]
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	25	{NLV}	340	5 U [5 U]
Butylbenzylphthalate	ug/L	{ID}	67 {(X)}	{NLV}	2,690	5 U [5 U]
Caprolactam	ug/L	{NA}	{NA}	{NLV}	5,250,000,000	10 U [10 U]
Carbazole	ug/L	{ID}	10 {(M); 4.0}	{NLV}	7,480	10 U [10 U]
Chrysene	ug/L	{ID}	{ID}	{ID}	1.6	**5 U [5 U]**
Dibenzo(a,h)anthracene	ug/L	{ID}	{ID}	{NLV}	2.49	2 U [2 U]
Dibenzofuran	ug/L	{ID}	4	10,000 {(S)}	10,000	4 U [4 U]
Diethylphthalate	ug/L	{NA}	110	{NLV}	1,080,000	5 U [5 U]
Dimethylphthalate	ug/L	{NA}	{NA}	{NLV}	4,190,000	5 U [5 U]
Di-n-Butylphthalate	ug/L	{NA}	9.7	{NLV}	11,200	5 U [5 U]
Di-n-Octylphthalate	ug/L	{ID}	{ID}	{NLV}	3,000	5 U [5 U]
Fluoranthene	ug/L	{ID}	1.6	210 {(S)}	206	**2 U [2 U]**
Fluorene	ug/L	{ID}	12	2,000 {(S)}	1,980	5 U [5 U]
Hexachlorobenzene	ug/L	{ID}	0.2 {(M); 0.0003}	3,000	6,200	**1 U [1 U]**
Hexachlorobutadiene	ug/L	{ID}	0.053	3,200 {(S)}	3,230	**5 U [5 U]**
Hexachlorocyclopentadiene	ug/L	{ID}	{ID}	420	1,800	5 U [5 U]
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	5 U [5 U]
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{ID}	{NLV}	0.022	**2 U [2 U]**
Isophorone	ug/L	{ID}	1,300 {(X)}	{NLV}	12,000,000	5 U [5 U]
Methylphenols, Total	ug/L	{NA}	30 {(M); 25}	{NLV}	28,000,000	5 U [5 U]

Table K-1

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	11-120 09/25/01
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	5 U [5 U]
Nitrobenzene	ug/L	{NA}	180 {(X)}	550,000	2,090,000	2 U [2 U]
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NA}	{NLV}	9,890,000	5 U [5 U]
N-Nitrosodiphenylamine	ug/L	{ID}	{NA}	{NLV}	35,100	5 U [5 U]
Pentachlorophenol	ug/L	{ID}	2.8 {(G,X)}	{NLV}	1,850,000	**20 U [20 U]**
Phenanthrene	ug/L	{ID}	2 {(M); 1.4}	1,000 {(S)}	1,000	**5 U [5 U]**
Phenol	ug/L	{NA}	450	{NLV}	82,800,000	5 U [5 U]
Pyrene	ug/L	{ID}	{ID}	140 {(S)}	135	5 U [5 U]
PCB						
Aroclor-1016	ug/L	- -	- -	- -	- -	0.1 U [0.11 U]
Aroclor-1221	ug/L	- -	- -	- -	- -	0.1 U [0.11 U]
Aroclor-1232	ug/L	- -	- -	- -	- -	0.1 U [0.11 U]
Aroclor-1242	ug/L	- -	- -	- -	- -	0.1 U [0.11 U]
Aroclor-1248	ug/L	- -	- -	- -	- -	0.1 U [0.11 U]
Aroclor-1254	ug/L	- -	- -	- -	- -	0.1 U [0.11 U]
Aroclor-1260	ug/L	- -	- -	- -	- -	0.1 U [0.11 U]
Total PCBs	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	0.1 U [0.11 U]
PCB-Dissolved						
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U [0.11 U]
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U [0.11 U]
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U [0.11 U]
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U [0.11 U]
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U [0.11 U]
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U [0.11 U]
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U [0.11 U]
Total PCBs (Dissolved)	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	0.1 U [0.11 U]
Inorganic						

Table K-1

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	11-120 09/25/01
Cyanide (total)	ug/L	{ID}	5.2	{NLV}	{NA}	2.7 J [3.3 J]
Mercury	ug/L	{ID}	0.0013	56 {(S)}	56	**0.2 U [0.2 U]**
Inorganic-Dissolved						
Antimony (Dissolved)	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	1.2 U [1.2 U]
Arsenic (Dissolved)	ug/L	{ID}	10	{NLV}	{NA}	3.1 J [2.6 J]
Barium (Dissolved)	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	340 [320]
Beryllium (Dissolved)	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	0.4 U [0.4 U]
Cadmium (Dissolved)	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	0.2 U [0.21]
Chromium Total (Dissolved)	ug/L	- -	170 {(G,X)}	- -	- -	0.6 [0.72]
Cobalt (Dissolved)	ug/L	{ID}	100	{NLV}	{NA}	0.62 [0.62]
Copper (Dissolved)	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	2.6 [2]
Cyanide (dissolved)	ug/L	{ID}	5.2	{NLV}	{NA}	3.5 J [3.8 J]
Lead (Dissolved)	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	0.4 U [0.4 U]
Manganese (Dissolved)	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	130 J [120 J]
Mercury (Dissolved)	ug/L	- -	0.0013	- -	- -	**0.2 U [0.2 U]**
Nickel (Dissolved)	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	15 J [14 J]
Selenium (Dissolved)	ug/L	{ID}	5	{NLV}	{NA}	4.5 J [4.9 J]
Silver (Dissolved)	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	**0.4 U [0.4 U]**
Thallium (Dissolved)	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	0.2 U [0.2 U]
Vanadium (Dissolved)	ug/L	{ID}	27	{NLV}	{NA}	0.8 U [0.8 U]
Zinc (Dissolved)	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	9.2 [9.4]

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	F31-Boring 6-1 5 - 6 04/17/13	F31-Boring 6-2 6 - 7 04/17/13	F31-Boring 6-3 3 - 4 04/17/13	F31-Boring 6-4 6 - 7 04/17/13	F31-Boring4 5 - 6 09/21/12
VOC													
1,1,1,2-Tetrachloroethane	mg/kg	440	{ID}	2,200 {(C)}	530,000	33	120	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.64 U	0.64 U	0.49 U	0.63 U	0.43 U
1,2,3-Trichloropropane	mg/kg	830	{NA}	4,200 {(C)}	8,800	7.5	11	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.6	0.2 U	0.2	0.2 U	0.1 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.64 U	0.64 U	0.49 U	0.63 U	0.43 U
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	0.2 U	0.2 U	0.2	0.2 U	0.1 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	0.5 U	0.5 U	0.4 U	0.5 U	0.3 U
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	0.04 UM	0.04 UM	0.03 UM	0.04 UM	0.03 UM
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	1.5 U	1.5 U	1.1 U	1.4 U	0.98 U
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	5 U	5 U	4 U	5 U	3 U
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.64 U	0.64 U	0.75	0.63 U	0.43 U
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	5 U	5 U	4 U	5 U	3 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	2 U	2 U	1 U	2 U	1 U
Acrylonitrile	mg/kg	8,300	0.1 {(M); 40}	74	58,000	35	17	{NA}	**0.2 U**	**0.2 U**	0.1 U	**0.2 U**	0.1 U
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U
Bromobenzene	mg/kg	760	{NA}	1,700 {(C)}	240,000	580	540	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.4 U	0.4 U	0.3 U	0.4 U	0.3 U
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.5 U	0.5 U	0.4 U	0.5 U	0.3 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.5 U	0.5 U	0.4 U	0.5 U	0.3 U
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.5 U	0.5 U	0.4 U	0.5 U	0.3 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U
Dibromomethane	mg/kg	2,000	{NA}	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	0.5 U	0.5 U	0.4 U	0.5 U	0.3 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.5 U	0.5 U	0.4 U	0.5 U	0.3 U
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	0.4 U	0.4 U	0.3 U	0.4 U	0.3 U
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.6 U	0.6 U	0.4 U	0.6 U	0.4 U

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	F31-Boring 6-1 5 - 6 04/17/13	F31-Boring 6-2 6 - 7 04/17/13	F31-Boring 6-3 3 - 4 04/17/13	F31-Boring 6-4 6 - 7 04/17/13	F31-Boring4 5 - 6 09/21/12
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.5 U	0.5 U	0.4 U	0.5 U	0.3 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.2 U	0.5	0.2 U	0.1 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.4 U	0.4 U	0.3 U	0.4 U	0.3 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.64 U	0.64 U	0.73	0.63 U	0.43 U
n-Butylbenzene	mg/kg	10,000	{ID}	8,000	880,000	{ID}	{ID}	{NA}	0.5	0.1 U	0.07 U	0.09 U	0.07 U
n-Propylbenzene	mg/kg	10,000	{ID}	8,000	590,000	{ID}	{ID}	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.4	0.09 U	0.07 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2	0.2 U	0.1 U	0.2 U	0.1 U
sec-Butylbenzene	mg/kg	10,000	{ID}	8,000	180,000	{ID}	{ID}	{NA}	0.1	0.1 U	0.07 U	0.09 U	0.07 U
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U
tert-Butylbenzene	mg/kg	10,000	{ID}	8,000	290,000	{ID}	{ID}	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U
Tetrahydrofuran	mg/kg	120,000	220 {(X)}	9,500	170,000,000	2,400	15,000	{NA}	2 U	2 U	1 U	2 U	1 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.2 U	0.2 U	0.2	0.2 U	0.1 U
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.1 U	0.1 U	0.07 U	0.09 U	0.07 U
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.1 U	0.1 U	0.4	0.09 U	0.07 U
SVOC													
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	**0.33 U**	**0.855 UX**	**0.33 U**	**0.823 UX**	**0.33 U**
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.33 U	**0.855 UX**	0.33 U	**0.823 UX**	0.33 U
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.33 U	**0.855 UX**	0.33 U	**0.823 UX**	0.33 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.33 U	**0.855 UX**	0.33 U	**0.823 UX**	0.33 U
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.33 U	**0.855 UX**	0.33 U	**0.823 UX**	0.33 U
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.855 UX	0.83 U	0.83 U	0.83 U
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	0.33 U	**0.855 UX**	0.33 U	**0.823 UX**	0.33 U
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.33 U	0.855 UX	0.335	0.823 UX	0.33 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.855 UX	0.83 U	0.83 U	0.83 U
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	1 UX	0.33 U	0.99 UX	0.33 U
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	2 U	2 U	2 U	0.823 U	2 U

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	F31-Boring 6-1 5 - 6 04/17/13	F31-Boring 6-2 6 - 7 04/17/13	F31-Boring 6-3 3 - 4 04/17/13	F31-Boring 6-4 6 - 7 04/17/13	F31-Boring4 5 - 6 09/21/12
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.855 UX	0.83 U	0.83 U	0.83 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.83 U	0.855 UX	0.83 U	0.83 U	0.83 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	0.28 U	**0.855 UX**	0.28 U	**0.823 UX**	**0.294 UX**
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.855 UX	0.83 U	0.83 U	0.83 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.855 UX	0.83 U	0.83 U	0.83 U
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.717	0.823 UX	0.33 U
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.487	0.823 UX	0.33 U
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	0.33 U	0.855 UX	0.596	0.823 UX	0.33 U
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.483	0.823 UX	0.33 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	**0.33 U**	**0.855 UX**	**0.33 U**	**0.823 UX**	**0.33 U**
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.33 U	1.2 UX	0.33 U	1.2 UX	0.33 U
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	0.33 U	0.855 UX	0.726	0.823 UX	0.33 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.33 U	1 UX	0.33 U	0.99 UX	0.33 U
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.33 U	0.855 UX	1.235	0.823 UX	0.33 U
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	0.33 U	**0.855 UX**	0.33 U	**0.823 UX**	0.33 U
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**0.33 U**	**0.855 UX**	**0.33 U**	**0.823 UX**	**0.33 U**
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 U	0.33 U	0.823 U	0.33 U
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.33 U	**0.855 UX**	0.33 U	**0.823 UX**	0.33 U
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.33 U	1.7 UX	0.33 U	1.6 UX	0.588 UX
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	0.33 U	0.855 UX	1.217	0.823 UX	0.33 U
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.33 U	0.855 UX	0.33 U	0.823 UX	0.33 U

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	F31-Boring 6-1 5 - 6 04/17/13	F31-Boring 6-2 6 - 7 04/17/13	F31-Boring 6-3 3 - 4 04/17/13	F31-Boring 6-4 6 - 7 04/17/13	F31-Boring4 5 - 6 09/21/12
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.33 U	0.855 UX	1.357	0.823 UX	0.33 U
PCB													
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	NA	NA	NA	NA	NA
Inorganic													
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	NA	NA	NA
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	NA	NA	NA
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	NA	NA	NA
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	NA	NA	NA
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	NA	NA	NA
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	NA	NA	NA
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	NA	NA	NA
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	NA	NA	NA
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	NA	NA	NA
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	NA	NA	NA
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	NA	NA	NA
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA	NA
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	NA	NA	NA
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	850,000	780,000	920,000	810,000	850,000

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	F31-Boring5 3 - 4 09/21/12	F31-Boring6 7.5 - 8.5 09/21/12	MW-83/84-24 0.25 - 2 10/16/13	MW-83/84-24 5 - 7 10/16/13
VOC												
1,1,1,2-Tetrachloroethane	mg/kg	440	{ID}	2,200 {(C)}	530,000	33	120	{NA}	0.1 U	0.2 U	0.1 U [0.1 U]	0.1 U
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.45 U	0.5 U	0.45 U [0.45 U]	0.44 U
1,2,3-Trichloropropane	mg/kg	830	{NA}	4,200 {(C)}	8,800	7.5	11	{NA}	0.1 U	0.2 U	0.1 U [0.1 U]	0.1 U
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.2 U	0.1 U [0.1 U]	0.1 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.45 U	0.5 U	0.45 U [0.45 U]	0.44 U
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	0.1 U	0.2 U	0.1 U [0.1 U]	0.1 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	0.3 U	0.4 U	0.3 U [0.3 U]	0.3 U
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	0.03 UM	0.03 UM	0.03 UM [0.03 UM]	0.03 UM
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.1 U	0.2 U	0.1 U [0.1 U]	0.1 U
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	0.1 U	0.2 U	0.1 U [0.1 U]	0.1 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.1 U	0.2 U	0.1 U [0.1 U]	0.1 U
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.1 U	0.2 U	0.1 U [0.1 U]	0.1 U
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	1 U	1.1 U	1 U [1 U]	1 U
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	3 U	4 U	3 U [3 U]	3 U
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.45 U	0.5 U	0.45 U [0.45 U]	0.44 U
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	3 U	4 U	3 U [3 U]	3 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	1 U	2 U	1 U [1 U]	1 U
Acrylonitrile	mg/kg	8,300	0.1 {(M); 40}	74	58,000	35	17	{NA}	0.1 U	**0.2 U**	0.1 U [0.1 U]	0.1 U
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
Bromobenzene	mg/kg	760	{NA}	1,700 {(C)}	240,000	580	540	{NA}	0.1 U	0.2 U	0.1 U [0.1 U]	0.1 U
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.2 U	0.1 U [0.1 U]	0.1 U
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.1 U	0.2 U	0.1 U [0.1 U]	0.1 U
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.1 U	0.2 U	0.1 U [0.1 U]	0.1 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.3 U	0.3 U	0.3 U [0.3 U]	0.3 U
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.3 U	0.4 U	0.3 U [0.3 U]	0.3 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.3 U	0.4 U	0.3 U [0.3 U]	0.3 U
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.3 U	0.4 U	0.3 U [0.3 U]	0.3 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.1 U	0.2 U	0.1 U [0.1 U]	0.1 U
Dibromomethane	mg/kg	2,000	{NA}	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	0.3 U	0.4 U	0.3 U [0.3 U]	0.3 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.3 U	0.4 U	0.3 U [0.3 U]	0.3 U
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	0.3 U	0.3 U	0.3 U [0.3 U]	0.3 U
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.4 U	0.5 U	0.4 U [0.4 U]	0.4 U

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	F31-Boring5 3 - 4 09/21/12	F31-Boring6 7.5 - 8.5 09/21/12	MW-83/84-24 0.25 - 2 10/16/13	MW-83/84-24 5 - 7 10/16/13
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.2 U	0.1 U [0.1 U]	0.1 U
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.3 U	0.4 U	0.3 U [0.3 U]	0.3 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.2 U	0.1 U [0.1 U]	0.1 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.3 U	0.3 U	0.3 U [0.3 U]	0.3 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.1 U	0.2 U	0.1 U [0.1 U]	0.1 U
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.45 U	0.5 U	0.45 U [0.45 U]	0.44 U
n-Butylbenzene	mg/kg	10,000	{ID}	8,000	880,000	{ID}	{ID}	{NA}	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
n-Propylbenzene	mg/kg	10,000	{ID}	8,000	590,000	{ID}	{ID}	{NA}	0.1 U	0.2 U	0.1 U [0.1 U]	0.1 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.2 U	0.1 U [0.1 U]	0.1 U
sec-Butylbenzene	mg/kg	10,000	{ID}	8,000	180,000	{ID}	{ID}	{NA}	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
tert-Butylbenzene	mg/kg	10,000	{ID}	8,000	290,000	{ID}	{ID}	{NA}	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
Tetrahydrofuran	mg/kg	120,000	220 {(X)}	9,500	170,000,000	2,400	15,000	{NA}	1 U	2 U	1 U [1 U]	1 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.1 U	0.2 U	0.1 U [0.1 U]	0.1 U
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.1 U	0.2 U	0.1 U [0.1 U]	0.1 U
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.07 U	0.08 U	0.07 U [0.07 U]	0.07 U
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.37 UX	0.617 UX	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	**0.37 UX**	**0.617 UX**	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.37 UX	0.617 UX	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.37 UX	0.617 UX	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	**0.37 UX**	**0.617 UX**	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.37 UX	0.617 UX	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.37 UX	0.617 UX	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	**0.37 UX**	**0.617 UX**	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	**0.37 UX**	**0.617 UX**	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.37 UX	0.617 UX	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.37 UX	0.617 UX	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.37 UX	0.617 UX	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.37 UX	0.617 UX	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	**0.37 UX**	**0.617 UX**	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.37 UX	0.617 UX	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.37 UX	0.617 UX	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.37 UX	0.617 UX	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.37 UX	0.617 UX	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	2 U	2 U	NA	NA

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	F31-Boring5 3 - 4 09/21/12	F31-Boring6 7.5 - 8.5 09/21/12	MW-83/84-24 0.25 - 2 10/16/13	MW-83/84-24 5 - 7 10/16/13
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.83 U	0.83 U	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.37 UX	0.617 UX	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	**0.37 UX**	**0.617 UX**	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.37 UX	0.617 UX	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.37 UX	0.617 UX	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	0.37 UX	0.617 UX	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.37 UX	0.617 UX	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.37 UX	0.617 UX	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.37 UX	0.617 UX	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	0.37 UX	0.617 UX	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	0.37 UX	0.617 UX	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	0.37 UX	0.617 UX	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	0.37 UX	0.617 UX	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.37 UX	0.617 UX	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	**0.37 UX**	**0.617 UX**	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.37 UX	0.617 UX	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.37 UX	0.617 UX	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	0.37 UX	0.617 UX	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	0.37 UX	0.617 UX	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	0.37 UX	0.617 UX	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.37 UX	0.617 UX	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.37 UX	0.617 UX	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.37 UX	0.617 UX	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.37 UX	0.617 UX	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.37 UX	0.617 UX	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.37 UX	0.617 UX	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	**0.37 UX**	**0.617 UX**	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**0.37 UX**	**0.617 UX**	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	0.37 UX	0.617 UX	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.37 UX	0.617 UX	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.37 UX	0.617 UX	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.37 UX	0.617 UX	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.37 U	0.617 U	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.37 UX	0.617 UX	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.37 UX	0.617 UX	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	0.37 UX	0.617 UX	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.741 UX	1.2 UX	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	0.37 UX	0.617 UX	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	0.37 UX	0.617 UX	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.37 UX	0.617 UX	NA	NA

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	F31-Boring5 3 - 4 09/21/12	F31-Boring6 7.5 - 8.5 09/21/12	MW-83/84-24 0.25 - 2 10/16/13	MW-83/84-24 5 - 7 10/16/13
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.37 UX	0.617 UX	NA	NA
PCB												
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	0.33 U [0.33 U]	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	0.33 U [0.33 U]	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	0.33 U [0.33 U]	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	0.33 U [0.33 U]	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	0.33 U [0.33 U]	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	0.33 U [0.33 U]	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	0.33 U [0.33 U]	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	NA	NA	0.33 U [0.33 U]	0.33 U
Inorganic												
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	NA	NA	0.5 U [0.5 U]	0.5 U
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	NA	NA	0.85 [1.26]	0.4
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	NA	NA	44.1 [35.5]	5.2
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	NA	NA	0.3 [0.27]	0.2 U
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	NA	NA	0.2 U [0.2 U]	0.2 U
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	NA	NA	3.13 [3.52]	0.91
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	NA	NA	**4.66 (GSIP (2013)) [3.3 (GSIP (2013))]**	0.76
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	NA	NA	3.82 [4.99]	2.32
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	NA	NA	0.1 U [0.1 U]	0.1 U
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	NA	NA	**25.6 (SDBL (2013)) [28.6 (SDBL (2013))]**	2.53
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	NA	NA	**240 (GSIP (2013)) [232 (GSIP (2013))]**	65.8
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	NA	NA	0.05 U [0.05 U]	0.05 U
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	NA	NA	2.4 [2.54]	2.37
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	NA	NA	0.4 U [0.4 U]	0.4 U
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	NA	NA	**0.2 U [0.2 U]**	**0.2 U**
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	NA	NA	0.2 U [0.2 U]	0.2 U
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	5.19 [5.83]	1.72
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	NA	NA	8.08 [8.84]	8.07
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	900,000	810,000	850,000 [840,000]	860,000

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-83/84-25 0.25 - 2 10/16/13	MW-83/84-25 3 - 5 10/16/13	MW-83/84-25 6 - 7 10/16/13	MW-83/84-34 6 - 8 02/03/14
VOC												
1,1,1,2-Tetrachloroethane	mg/kg	440	{ID}	2,200 {(C)}	530,000	33	120	{NA}	0.1 U	0.1 U	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.07 U	0.07 U	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.07 U	0.07 U	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.07 U	0.07 U	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.07 U	0.07 U	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.07 U	0.07 U	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.44 U	0.45 U	NA	NA
1,2,3-Trichloropropane	mg/kg	830	{NA}	4,200 {(C)}	8,800	7.5	11	{NA}	0.1 U	0.1 U	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.44 U	0.45 U	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	0.1 U	0.1 U	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	0.3 U	0.3 U	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	0.03 UM	0.03 UM	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.1 U	0.1 U	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.07 U	0.07 U	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.07 U	0.07 U	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	0.1 U	0.1 U	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.1 U	0.1 U	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.1 U	0.1 U	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	1 U	1 U	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	3 U	3 U	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.44 U	0.45 U	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	3 U	3 U	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	1 U	1 U	NA	NA
Acrylonitrile	mg/kg	8,300	0.1 {(M); 40}	74	58,000	35	17	{NA}	0.1 U	0.1 U	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.07 U	0.07 U	NA	NA
Bromobenzene	mg/kg	760	{NA}	1,700 {(C)}	240,000	580	540	{NA}	0.1 U	0.1 U	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.1 U	0.1 U	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.1 U	0.1 U	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.3 U	0.3 U	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.3 U	0.3 U	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.07 U	0.07 U	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.07 U	0.07 U	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.3 U	0.3 U	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.07 U	0.07 U	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.3 U	0.3 U	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.07 U	0.07 U	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.07 U	0.07 U	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.1 U	0.1 U	NA	NA
Dibromomethane	mg/kg	2,000	{NA}	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	0.3 U	0.3 U	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.3 U	0.3 U	NA	NA
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	0.3 U	0.3 U	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.07 U	0.07 U	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.4 U	0.4 U	NA	NA

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-83/84-25 0.25 - 2 10/16/13	MW-83/84-25 3 - 5 10/16/13	MW-83/84-25 6 - 7 10/16/13	MW-83/84-34 6 - 8 02/03/14
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.3 U	0.3 U	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.3 U	0.3 U	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.1 U	0.1 U	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.44 U	0.45 U	NA	NA
n-Butylbenzene	mg/kg	10,000	{ID}	8,000	880,000	{ID}	{ID}	{NA}	0.07 U	0.07 U	NA	NA
n-Propylbenzene	mg/kg	10,000	{ID}	8,000	590,000	{ID}	{ID}	{NA}	0.1 U	0.1 U	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.07 U	0.07 U	NA	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	NA	NA
sec-Butylbenzene	mg/kg	10,000	{ID}	8,000	180,000	{ID}	{ID}	{NA}	0.07 U	0.07 U	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.07 U	0.07 U	NA	NA
tert-Butylbenzene	mg/kg	10,000	{ID}	8,000	290,000	{ID}	{ID}	{NA}	0.07 U	0.07 U	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.07 U	0.07 U	NA	NA
Tetrahydrofuran	mg/kg	120,000	220 {(X)}	9,500	170,000,000	2,400	15,000	{NA}	1 U	1 U	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.1 U	0.1 U	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.07 U	0.07 U	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.07 U	0.07 U	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.07 U	0.07 U	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.07 U	0.07 U	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.1 U	0.1 U	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.07 U	0.07 U	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.07 U	0.07 U	NA	NA
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.33 U	0.33 U	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	**0.33 U**	**0.33 U**	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.33 U	0.33 U	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.33 U	0.33 U	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.33 U	0.33 U	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	0.33 U	0.33 U	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.33 U	0.33 U	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	2 U	2 U	NA	NA

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-83/84-25 0.25 - 2 10/16/13	MW-83/84-25 3 - 5 10/16/13	MW-83/84-25 6 - 7 10/16/13	MW-83/84-34 6 - 8 02/03/14
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.83 U	0.83 U	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	0.28 U	0.28 U	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	0.33 U	0.33 U	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.33 U	0.33 U	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.33 U	0.33 U	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	0.33 U	0.33 U	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	**0.33 U**	**0.33 U**	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	0.33 U	0.33 U	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	0.33 U	0.33 U	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.33 U	0.33 U	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.33 U	0.33 U	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	0.33 U	0.33 U	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**0.33 U**	**0.33 U**	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	0.33 U	0.33 U	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.33 U	0.33 U	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.33 U	0.33 U	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.33 U	0.33 U	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	0.33 U	0.33 U	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.33 U	0.33 U	NA	NA

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Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-83/84-25 0.25 - 2 10/16/13	MW-83/84-25 3 - 5 10/16/13	MW-83/84-25 6 - 7 10/16/13	MW-83/84-34 6 - 8 02/03/14
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.33 U	0.33 U	NA	NA
PCB												
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.33 U	0.33 U	0.33 U
Inorganic												
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	0.5 U	0.5 U	NA	0.5 U
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	0.61	1.64	NA	4.04
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	17.8	22.7	NA	22.2
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	NA	0.2 U
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	0.2 U	0.2 U	NA	0.2 U
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	1.91	2.72	NA	6.45
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	1.45	**4.06 (GSIP (2013))**	NA	**4.65 (GSIP (2013))**
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	1.97	6.96	NA	6.91
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	0.1 U	0.1 U	NA	0.1 U
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	3.47	5.78	NA	3.78
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	**140 (GSIP (2013))**	**199 (GSIP (2013))**	NA	**223 (GSIP (2013))**
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	0.05 U	0.05 U	NA	0.05 U
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	2.26	6.06	NA	9.91
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	0.4 U	0.4 U	NA	0.4 U
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	**0.2 U**	**0.2 U**	NA	**0.2 U**
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	NA	0.2 U
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	2.37	4.93	NA	9.35
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	3.99	10.4	NA	27.4
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	860,000	850,000	820,000	840,000

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-83/84-35 8 - 10 02/03/14	MW-83/84-36 6 - 8 02/03/14	MW-83/84-36 10 - 12 02/03/14
VOC											
1,1,1,2-Tetrachloroethane	mg/kg	440	{ID}	2,200 {(C)}	530,000	33	120	{NA}	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	{NA}	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA	NA	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA	NA	NA
Acrylonitrile	mg/kg	8,300	0.1 {(M); 40}	74	58,000	35	17	{NA}	NA	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA	NA	NA
Bromobenzene	mg/kg	760	{NA}	1,700 {(C)}	240,000	580	540	{NA}	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA	NA	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA	NA	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA	NA	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA	NA	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA	NA	NA
Dibromomethane	mg/kg	2,000	{NA}	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA	NA	NA
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-83/84-35 8 - 10 02/03/14	MW-83/84-36 6 - 8 02/03/14	MW-83/84-36 10 - 12 02/03/14
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	{ID}	8,000	880,000	{ID}	{ID}	{NA}	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	{ID}	8,000	590,000	{ID}	{ID}	{NA}	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	{ID}	8,000	180,000	{ID}	{ID}	{NA}	NA	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA	NA	NA
tert-Butylbenzene	mg/kg	10,000	{ID}	8,000	290,000	{ID}	{ID}	{NA}	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA	NA	NA
Tetrahydrofuran	mg/kg	120,000	220 {(X)}	9,500	170,000,000	2,400	15,000	{NA}	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA	NA	NA
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA	NA	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA	NA	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA	NA	NA

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-83/84-35 8 - 10 02/03/14	MW-83/84-36 6 - 8 02/03/14	MW-83/84-36 10 - 12 02/03/14
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA	NA	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA	NA	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA	NA	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA	NA	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA	NA	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA	NA	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA	NA	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA	NA	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA	NA	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA	NA	NA

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-83/84-35 8 - 10 02/03/14	MW-83/84-36 6 - 8 02/03/14	MW-83/84-36 10 - 12 02/03/14
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA	NA	NA
PCB											
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U	0.33 U	0.33 U
Inorganic											
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	0.5 U	0.5 U	0.5 U
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	2.16	2.59	4.04
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	3.4	17.6	2.71
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	0.2 U	0.21	0.2 U
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	0.2 U	0.2 U	0.23
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	1.92	6.58	1.42
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	**2.53 (GSIP (2013))**	**4.16 (GSIP (2013))**	1.68
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	4.79	11	3.24
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	0.1 U	0.1 U	0.1 U
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	2.73	5.62	2.6
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	**178 (GSIP (2013))**	**130 (GSIP (2013))**	94.8
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	0.05 U	0.05 U	0.05 U
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	6.24	10.6	4.14
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	0.4 U	0.4 U	0.4 U
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	**0.2 U**	**0.2 U**	**0.2 U**
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	0.2 U	0.2 U	0.2 U
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	4.37	10.2	3.06
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	14.7	30.9	21.5
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	900,000	830,000	800,000

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-83/84-37 8 - 10 02/03/14
VOC									
1,1,1,2-Tetrachloroethane	mg/kg	440	{ID}	2,200 {(C)}	530,000	33	120	{NA}	NA
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	NA
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	NA
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	NA
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	NA
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
1,2,3-Trichloropropane	mg/kg	830	{NA}	4,200 {(C)}	8,800	7.5	11	{NA}	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	NA
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	NA
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	NA
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	NA
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	NA
Acrylonitrile	mg/kg	8,300	0.1 {(M); 40}	74	58,000	35	17	{NA}	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	NA
Bromobenzene	mg/kg	760	{NA}	1,700 {(C)}	240,000	580	540	{NA}	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	NA
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	NA
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	NA
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	NA
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	NA
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	NA
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	NA
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	NA
Dibromomethane	mg/kg	2,000	{NA}	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	NA
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-83/84-37 8 - 10 02/03/14
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA
n-Butylbenzene	mg/kg	10,000	{ID}	8,000	880,000	{ID}	{ID}	{NA}	NA
n-Propylbenzene	mg/kg	10,000	{ID}	8,000	590,000	{ID}	{ID}	{NA}	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
sec-Butylbenzene	mg/kg	10,000	{ID}	8,000	180,000	{ID}	{ID}	{NA}	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	NA
tert-Butylbenzene	mg/kg	10,000	{ID}	8,000	290,000	{ID}	{ID}	{NA}	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	NA
Tetrahydrofuran	mg/kg	120,000	220 {(X)}	9,500	170,000,000	2,400	15,000	{NA}	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	NA
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	NA
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	NA
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	NA
SVOC									
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	NA
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	NA
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	NA
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	NA

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-83/84-37 8 - 10 02/03/14
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	NA
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	NA
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	NA
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	NA
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	NA
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	NA
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	NA
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	NA
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	NA
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	NA
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	NA
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	NA
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	NA
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	NA
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	NA
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	NA
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	NA
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	NA
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	NA
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	NA
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	NA
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	NA
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	NA
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	NA
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	NA
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	NA
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	NA
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	NA
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	NA

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	MW-83/84-37 8 - 10 02/03/14
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	NA
PCB									
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U [0.33 U]
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U [0.33 U]
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U [0.33 U]
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U [0.33 U]
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U [0.33 U]
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U [0.33 U]
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U [0.33 U]
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.33 U [0.33 U]
Inorganic									
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	0.5 U [0.5 U]
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	2.82 [2.22]
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	21.6 [11.8]
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	0.22 [0.2 U]
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	0.2 U [0.2 U]
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	7.36 [5.13]
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	**5.43 (GSIP (2013)) [3.03 (GSIP (2013))]**
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	12.4 [9.32]
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	0.1 U [0.1 U]
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	6.19 [4.75]
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	**189 (GSIP (2013)) [93.4]**
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	0.05 U [0.05 U]
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	13.6 [7.94]
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	**0.56 (GSIP (2013),SDBL (2013)) [0.54 (GSIP (2013),SDBL (2013))]**
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	**0.2 U [0.2 U]**
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	0.2 U [0.2 U]
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	12.7 [9.73]
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	37.5 [25.7]
Miscellaneous									
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	820,000 [860,000]

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-05 0.7 - 2.7 07/24/01	RFI-83/84-05 6.7 - 8.7 07/24/01
VOC										
1,1,1,2-Tetrachloroethane	mg/kg	440	{ID}	2,200 {(C)}	530,000	33	120	{NA}	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.039 U	0.038 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.078 U	0.076 UJ
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.17 U	0.16 U
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.039 U	0.038 U
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.039 U	0.038 U
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.039 U	0.038 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
1,2,3-Trichloropropane	mg/kg	830	{NA}	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.17 U	0.16 UJ
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	0.17 U	0.16 U
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	**0.17 U**	**0.16 U**
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.078 U	0.076 U
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.039 U	0.038 UJ
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.039 U	0.038 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.078 U	0.076 U
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.078 U	0.076 U
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.28 UJ	0.27 UJ
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.28 U	0.27 UJ
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	3.4	0.27 UJ
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.34 UJ	1.2 UJ
Acrylonitrile	mg/kg	8,300	0.1 {(M); 40}	74	58,000	35	17	{NA}	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.039 U	0.038 U
Bromobenzene	mg/kg	760	{NA}	1,700 {(C)}	240,000	580	540	{NA}	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.078 U	0.076 U
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.078 U	0.076 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.17 U	0.16 U
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.17 U	0.16 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.039 U	0.038 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.039 U	0.038 U
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.17 U	0.16 U
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.039 U	0.038 U
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.17 U	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.039 U	0.038 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.039 U	0.038 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.16 U
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.078 U	0.076 U
Dibromomethane	mg/kg	2,000	{NA}	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.078 U	0.076 U
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.039 U	0.038 U
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-05 0.7 - 2.7 07/24/01	RFI-83/84-05 6.7 - 8.7 07/24/01
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.17 U	0.16 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.087	0.076 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.095 J	0.16 UJ
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.28 U	0.27 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.097 J	0.16 U
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.17 UJ	0.16 UJ
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA
n-Butylbenzene	mg/kg	10,000	{ID}	8,000	880,000	{ID}	{ID}	{NA}	NA	NA
n-Propylbenzene	mg/kg	10,000	{ID}	8,000	590,000	{ID}	{ID}	{NA}	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.045	0.038 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
sec-Butylbenzene	mg/kg	10,000	{ID}	8,000	180,000	{ID}	{ID}	{NA}	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.039 U	0.038 U
tert-Butylbenzene	mg/kg	10,000	{ID}	8,000	290,000	{ID}	{ID}	{NA}	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.039 U	0.038 U
Tetrahydrofuran	mg/kg	120,000	220 {(X)}	9,500	170,000,000	2,400	15,000	{NA}	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	4.8	0.038 U
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.039 U	0.038 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.039 U	0.038 UJ
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.039 U	0.038 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.078 U	0.076 U
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.039 U	0.038 U
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.045	0.038 U
SVOC										
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.18 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.18 U
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 UJ	0.71 UJ
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.74 U	0.71 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.18 U
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.19 U	0.18 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	0.19 U	0.18 U
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.19 U	0.18 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.18 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 U	0.71 U
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.19 U	0.18 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.38 UJ	0.36 UJ
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	0.74 UJ	0.71 U

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-05 0.7 - 2.7 07/24/01	RFI-83/84-05 6.7 - 8.7 07/24/01
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 U	0.71 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	0.74 U	0.71 UJ
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.18 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	0.19 U	0.18 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 U	0.71 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 U	0.71 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 U	0.71 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 U	0.71 U
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	0.168 J	0.18 U
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.19 U	0.18 U
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.19 U	0.18 U
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	1.06	0.18 U
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	**0.19 U**	**0.18 U**
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.087 J	0.18 U
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	4.44 JD	0.18 U
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	4.03 JD	0.18 U
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	4.1 JD	0.18 U
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	1.55 J	0.18 U
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	4.31 J	0.18 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.18 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	0.037 U	0.035 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.19 UJ	0.18 U
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.19 UJ	0.18 U
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.19 UJ	0.18 U
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	0.811	0.18 U
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	5.19 JD	0.18 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	0.19 UJ	0.18 U
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	0.156 J	0.18 U
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.19 U	0.0559 J
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.19 UJ	0.18 U
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	**6.2 JD (GSIP (2013))**	0.18 U
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.275 J	0.18 U
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	0.19 U	0.18 U
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**0.19 U**	**0.18 U**
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	0.19 U	0.18 U
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.19 U	0.18 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	1.65 J	0.18 U
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.0516 J	0.18 U
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.074 U	0.071 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	0.74 U	0.71 U
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	**4.4 (GSIP (2013))**	0.18 U
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.19 U	0.18 U

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-05 0.7 - 2.7 07/24/01	RFI-83/84-05 6.7 - 8.7 07/24/01
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	12.2 J	0.18 U
PCB										
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.037 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.037 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.037 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.037 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.037 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.037 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.037 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.039 U	0.037 U
Inorganic										
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	1.7 U	0.23 U
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	**5.7 (GSIP (2013))**	3.7
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	**210 (SDBL (2013))**	6.5
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	0.91	0.1
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	0.92	0.076
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	17	6.8
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	**4.5 (GSIP (2013))**	**2.2 (GSIP (2013))**
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	**160 J (GSIP (2013),SDBL (2013))**	5.1 J
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	**0.32 (GSIP (2013))**	**0.2 U**
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	**42,000 JD (GSIP (2013),NDC (2013),SDBL (2013))**	6.4 J
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	**200 J (GSIP (2013))**	**130 J (GSIP (2013))**
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	**5.12 D (GSIP (2013),SDBL (2013))**	**0.073 U**
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	**21 (SDBL (2013))**	6.3
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	**0.64 U**	0.27 UJ
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	**0.3 (GSIP (2013))**	0.026 J
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	0.34	0.15 J
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	14	10
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	**190 (SDBL (2013))**	20
Miscellaneous										
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	903,000	941,000

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-48 1 - 3 04/07/03	RFI-83/84-48 7 - 9 04/07/03
VOC										
1,1,1,2-Tetrachloroethane	mg/kg	440	{ID}	2,200 {(C)}	530,000	33	120	{NA}	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.037 U	0.04 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6 {(X)}	240	68,000	23	34	{NA}	0.073 U	0.079 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.16 U	0.17 U
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.037 U	0.04 U
1,1-Dichloroethane	mg/kg	890	15	87,000 {(C)}	15,000,000	430	2,500	{NA}	0.037 U	0.04 U
1,1-Dichloroethene	mg/kg	570	2.6	660 {(C)}	78,000	0.33	3.7	{NA}	0.037 U	0.04 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
1,2,3-Trichloropropane	mg/kg	830	{NA}	4,200 {(C)}	8,800	7.5	11	{NA}	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	0.16 U	0.17 U
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000 {(C)}	36,000,000	8,000 {(C)}	25,000	{NA}	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	{ID}	20 {(C)}	700	1.2	0.9	{NA}	0.16 U	0.17 U
1,2-Dibromoethane	mg/kg	890	0.11 {(X)}	0.43	18,000	3.6	5.8	{NA}	**0.16 U**	**0.17 U**
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.073 U	0.079 U
1,2-Dichloroethane	mg/kg	1,200	7.2 {(X)}	420	150,000	11	21	{NA}	0.037 U	0.04 U
1,2-Dichloropropane	mg/kg	550	4.6 {(X)}	660 {(C)}	120,000	7.4	30	{NA}	0.037 U	0.04 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000 {(C)}	36,000,000	4,800 {(C)}	19,000	{NA}	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	0.073 U	0.079 U
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	0.073 U	0.079 U
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	0.31 UJ	0.34 UJ
2-Hexanone	mg/kg	2,500	{ID}	100,000 {(C)}	1,200,000	1,800	1,300	{NA}	0.073 U	0.079 U
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	1.6 U	1.7 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	0.31 U	0.34 U
Acrylonitrile	mg/kg	8,300	0.1 {(M); 40}	74	58,000	35	17	{NA}	NA	NA
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.037 U	0.04 U
Bromobenzene	mg/kg	760	{NA}	1,700 {(C)}	240,000	580	540	{NA}	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Bromodichloromethane	mg/kg	1,500	{ID}	490	110,000	6.4	31	{NA}	0.073 U	0.079 U
Bromoform	mg/kg	870	{ID}	3,800 {(C)}	3,600,000	770	3,100	{NA}	0.073 U	0.079 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	{NA}	0.16 U	0.17 U
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	0.16 U	0.17 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.037 U	0.04 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.037 U	0.04 U
Chloroethane	mg/kg	950	22 {(X)}	12,000 {(C)}	290,000,000	5,300 {(C)}	36,000	{NA}	0.16 U	0.17 U
Chloroform	mg/kg	1,500	7	5,500 {(C)}	1,600,000	38	150	{NA}	0.037 U	0.04 U
Chloromethane	mg/kg	1,100	{ID}	7,400 {(C)}	2,600,000	10	120	{NA}	0.16 U	0.17 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000 {(C)}	1,000,000	41	210	{NA}	0.037 U	0.04 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.037 U	0.04 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.058 J	0.17 U
Dibromochloromethane	mg/kg	610	{ID}	500	160,000	21	80	{NA}	0.073 U	0.079 U
Dibromomethane	mg/kg	2,000	{NA}	8,000 {(C)}	{ID}	{ID}	{ID}	{NA}	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.073 U	0.079 U
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.037 U	0.04 U
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	NA	NA

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-48 1 - 3 04/07/03	RFI-83/84-48 7 - 9 04/07/03
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000 {(C)}	2,600,000	730 {(C)}	2,000	{NA}	0.16 U	0.17 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.076	0.079 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.21	0.17 U
Methyl tert-butyl ether	mg/kg	5,900	140 {(X)}	7,100 {(C)}	88,000,000	18,000 {(C)}	30,000	{NA}	0.16 U	0.17 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19	0.17 U
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.16 U	0.17 U
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	NA	NA
n-Butylbenzene	mg/kg	10,000	{ID}	8,000	880,000	{ID}	{ID}	{NA}	NA	NA
n-Propylbenzene	mg/kg	10,000	{ID}	8,000	590,000	{ID}	{ID}	{NA}	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.051	0.04 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
sec-Butylbenzene	mg/kg	10,000	{ID}	8,000	180,000	{ID}	{ID}	{NA}	NA	NA
Styrene	mg/kg	520	2.1 {(X)}	1,900 {(C)}	6,900,000	1,300 {(C)}	3,300	{NA}	0.037 U	0.04 U
tert-Butylbenzene	mg/kg	10,000	{ID}	8,000	290,000	{ID}	{ID}	{NA}	NA	NA
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.037 U	0.04 U
Tetrahydrofuran	mg/kg	120,000	220 {(X)}	9,500	170,000,000	2,400	15,000	{NA}	NA	NA
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.038 J	0.079 U
trans-1,2-Dichloroethene	mg/kg	1,400	30 {(X)}	12,000 {(C)}	2,100,000	43	330	{NA}	0.037 U	0.04 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.037 U	0.04 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.037 U	0.04 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.073 U	0.079 U
Vinyl Chloride	mg/kg	490	0.26 {(X)}	34	890,000	2.8	29	{NA}	0.073 U	0.079 U
Xylenes (total)	mg/kg	150	0.82	1,000,000 {(C,D)}	130,000,000	12,000 {(C)}	54,000	{NA}	0.051	0.04 U
SVOC										
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.97 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9 {(X)}	5,800 {(C,DD)}	11,000,000	18,000 {(C)}	34,000	{NA}	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660 {(C)}	88,000	48	94	{NA}	NA	NA
1,4-Dichlorobenzene	mg/kg	{NA}	0.36	1,900	570,000	100	260	{NA}	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.97 U
2,4,5-Trichlorophenol	mg/kg	{NA}	{NA}	73,000	10,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.97 U
2,4,6-Trichlorophenol	mg/kg	{NA}	0.33 {(M); 100}	3,300	1,300,000	{NLV}	{NLV}	{NA}	0.18 U	**0.97 U**
2,4-Dichlorophenol	mg/kg	1,800	0.33 {(M); 220}	3,900 {(C,DD)}	2,300,000	{NLV}	{NLV}	{NA}	0.18 U	**0.97 U**
2,4-Dimethylphenol	mg/kg	{NA}	7.6	36,000	2,100,000	{NLV}	{NLV}	{NA}	0.18 U	0.97 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	R	3.8 U
2,4-Dinitrotoluene	mg/kg	{NA}	{NA}	220	20,000	{NLV}	{NLV}	{NA}	0.7 U	3.8 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.97 U
2-Chloronaphthalene	mg/kg	{NA}	{NA}	180,000	{ID}	{ID}	{ID}	{NA}	0.18 U	0.97 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	{NA}	0.18 U	**0.97 U**
2-Methylnaphthalene	mg/kg	{NA}	4.2	26,000	290,000	4,900	1,800	{NA}	0.186	0.97 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.97 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	3.8 U
2-Nitrophenol	mg/kg	{NA}	{ID}	2,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	0.97 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.36 UJ	1.9 UJ
3,3'-Dichlorobenzidine	mg/kg	{NA}	2 {(M); 7.4}	30	8,200	{NLV}	{NLV}	{NA}	0.7 U	**3.8 U**

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-48 1 - 3 04/07/03	RFI-83/84-48 7 - 9 04/07/03
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	3.8 U
4,6-Dinitro-2-methylphenol	mg/kg	{NA}	{NA}	260	59,000	{NLV}	{NLV}	{NA}	R	3.8 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.97 U
4-Chloro-3-Methylphenol	mg/kg	{NA}	0.28	15,000	{ID}	{NLV}	{NLV}	{NA}	0.18 U	**0.97 U**
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	3.8 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	3.8 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	3.8 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	3.8 U
Acenaphthene	mg/kg	{NA}	8.7	130,000	6,200,000	350,000	97,000	{NA}	0.18 U	0.97 U
Acenaphthylene	mg/kg	{NA}	{ID}	5,200	1,000,000	3,000	2,700	{NA}	0.18 U	0.97 U
Acetophenone	mg/kg	1,100	{ID}	150,000 {(C)}	14,000,000	210,000 {(C)}	52,000	{NA}	0.18 U	0.97 U
Anthracene	mg/kg	{NA}	{ID}	730,000	29,000,000	1,000,000 {(D)}	1,600,000	{NA}	0.18 U	0.97 U
Atrazine	mg/kg	{NA}	0.15	330 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	**0.18 U**	**0.97 U**
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 UJ	0.97 UJ
Benzo(a)anthracene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.0964 J	0.97 U
Benzo(a)pyrene	mg/kg	{NA}	{NLL}	8	1,900	{NLV}	{NLV}	{NA}	0.0894 J	0.97 UJ
Benzo(b)fluoranthene	mg/kg	{NA}	{NLL}	80	{ID}	{ID}	{ID}	{NA}	0.119 J	0.97 UJ
Benzo(g,h,i)perylene	mg/kg	{NA}	{NLL}	7,000	350,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.97 UJ
Benzo(k)fluoranthene	mg/kg	{NA}	{NLL}	800	{ID}	{NLV}	{NLV}	{NA}	0.0786 J	0.97 UJ
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.97 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1 {(M); 20}	58	12,000	44	13	{NA}	0.034 U	**0.19 U**
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	{NLL}	12,000 {(C)}	890,000	{NLV}	{NLV}	{NA}	0.18 U	0.97 U
Butylbenzylphthalate	mg/kg	310	120 {(X)}	120,000 {(C)}	21,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.97 U
Caprolactam	mg/kg	{NA}	{NA}	310,000 {(DD)}	290,000	{NLV}	{NLV}	{NA}	0.18 U	0.97 U
Carbazole	mg/kg	{NA}	1.1	2,400	78,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.97 UJ
Chrysene	mg/kg	{NA}	{NLL}	8,000	{ID}	{ID}	{ID}	{NA}	0.144 J	0.97 U
Dibenzo(a,h)anthracene	mg/kg	{NA}	{NLL}	8	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.97 UJ
Dibenzofuran	mg/kg	{NA}	1.7	{ID}	2,900	3,600	160	{NA}	0.18 U	0.97 U
Diethylphthalate	mg/kg	740	2.2	550,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.97 U
Dimethylphthalate	mg/kg	790	{NA}	1,000,000 {(C,D)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.97 U
Di-n-Butylphthalate	mg/kg	760	11	87,000 {(C)}	1,500,000	{NLV}	{NLV}	{NA}	0.18 U	0.97 UJ
Di-n-Octylphthalate	mg/kg	140,000	{ID}	20,000	14,000,000	{NLV}	{NLV}	{NA}	0.18 UJ	0.97 U
Fluoranthene	mg/kg	{NA}	5.5	130,000	4,100,000	1,000,000 {(D)}	890,000	{NA}	0.17 J	0.97 U
Fluorene	mg/kg	{NA}	5.3	87,000	4,100,000	1,000,000 {(D)}	150,000	{NA}	0.18 U	0.97 U
Hexachlorobenzene	mg/kg	{NA}	0.35	37	8,500	220	56	{NA}	0.18 U	**0.97 U**
Hexachlorobutadiene	mg/kg	350	0.091	470 {(C)}	180,000	710 {(C)}	460	{NA}	**0.18 U**	**0.97 U**
Hexachlorocyclopentadiene	mg/kg	720	{ID}	6,700 {(C)}	5,900	56	60	{NA}	0.18 U	0.97 U
Hexachloroethane	mg/kg	{NA}	1.8 {(X)}	730	100,000	79	660	{NA}	0.18 U	0.97 U
Indeno(1,2,3-cd)pyrene	mg/kg	{NA}	{NLL}	80	{ID}	{NLV}	{NLV}	{NA}	0.18 UJ	0.97 UJ
Isophorone	mg/kg	2,400	26 {(X)}	22,000 {(C)}	8,200,000	{NLV}	{NLV}	{NA}	0.18 U	0.97 U
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.18 U	0.97 U
Naphthalene	mg/kg	{NA}	0.73	52,000	88,000	470	350	{NA}	0.13 J	**0.97 U**
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.07 U	0.38 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	{NA}	5.4	2,000	{NLV}	{NLV}	{NA}	0.18 U	0.97 U
N-Nitrosodiphenylamine	mg/kg	{NA}	{NA}	7,800	2,800,000	{NLV}	{NLV}	{NA}	0.18 U	0.97 U
Pentachlorophenol	mg/kg	{NA}	27 {(G,X)}	320	130,000	{NLV}	{NLV}	{NA}	0.7 U	3.8 U
Phenanthrene	mg/kg	{NA}	2.1	5,200	2,900	5,100	190	{NA}	0.282	0.97 U
Phenol	mg/kg	12,000	9	230,000 {(C,DD)}	18,000,000	{NLV}	{NLV}	{NA}	0.18 U	0.97 U

Table K-2

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-83/84-48 1 - 3 04/07/03	RFI-83/84-48 7 - 9 04/07/03
Pyrene	mg/kg	{NA}	{ID}	84,000	2,900,000	1,000,000 {(D)}	780,000	{NA}	0.164 J	0.97 U
PCB										
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.04 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.04 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.04 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.04 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.04 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.04 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.04 U
Total PCBs	mg/kg	{NA}	{NLL}	16 {(T)}	6,500	16,000	810	{NA}	0.037 U	0.04 U
Inorganic										
Antimony	mg/kg	{NA}	94 {(X)}	670	5,900	{NLV}	{NLV}	{NA}	0.04 J	0.074 J
Arsenic	mg/kg	{NA}	4.6	37	910	{NLV}	{NLV}	5.8	3.7	**16 (GSIP (2013),SDBL (2013))**
Barium	mg/kg	{NA}	850 {(G)}	130,000	150,000	{NLV}	{NLV}	75	38 J	63 J
Beryllium	mg/kg	{NA}	400 {(G)}	1,600	590	{NLV}	{NLV}	{NA}	0.28	0.55
Cadmium	mg/kg	{NA}	5.8 {(G,X)}	2,100	2,200	{NLV}	{NLV}	1.2	0.077 U	0.2
Chromium Total	mg/kg	- -	4,900,000 {(G,X)}	- -	- -	- -	- -	18	15	12
Cobalt	mg/kg	{NA}	2	9,000	5,900	{NLV}	{NLV}	6.8	**2.8 (GSIP (2013))**	**5.3 (GSIP (2013))**
Copper	mg/kg	{NA}	130 {(G)}	73,000	59,000	{NLV}	{NLV}	32	9.4	23
Cyanide (total)	mg/kg	{NA}	0.1	250	250	{NLV}	{NLV}	0.39 {(total)}	**0.2 U**	**0.2 U**
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	6.3	13
Manganese	mg/kg	{NA}	98 {(G,X)}	90,000	1,500	{NLV}	{NLV}	440	**490 (GSIP (2013),SDBL (2013))**	**690 (GSIP (2013),SDBL (2013))**
Mercury	mg/kg	{NA}	0.05 {(M); 1.2}	580	8,800	89	62	0.13	**0.07 U**	0.0464 J
Nickel	mg/kg	{NA}	120 {(G)}	150,000	16,000	{NLV}	{NLV}	20	9.2	16
Selenium	mg/kg	{NA}	0.4	9,600	59,000	{NLV}	{NLV}	0.41	0.23 J	0.33 J
Silver	mg/kg	{NA}	0.1 {(M); 27}	9,000	2,900	{NLV}	{NLV}	1	0.054 J	0.074 J
Thallium	mg/kg	{NA}	4.2 {(X)}	130	5,900	{NLV}	{NLV}	{NA}	0.085 J	0.1 J
Vanadium	mg/kg	{NA}	430	5,500 {(DD)}	{ID}	{NLV}	{NLV}	{NA}	14	24
Zinc	mg/kg	{NA}	280 {(G)}	630,000	{ID}	{NLV}	{NLV}	47	19	34
Miscellaneous										
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	957,000	880,000

Table K-3

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	MW-83/84-07 05/07/13	MW-83/84-10 05/07/13	MW-83/84-12 05/07/13	MW-83/84-15 08/02/13	MW-83/84-34 02/14/14
VOC						
1,1,1,2-Tetrachloroethane	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
1,1,1-Trichloroethane	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
1,1,2,2-Tetrachloroethane	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
1,1-Dichloroethane	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
1,1-Dichloroethene	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
1,2,3-Trichlorobenzene	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
1,2,3-Trichloropropane	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
1,2,3-Trimethylbenzene	mg/kg	NA	10 UX	10 UX	2.1 Y	NA
1,2,4-Trichlorobenzene	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
1,2,4-Trimethylbenzene	mg/kg	NA	10 UX	10 UX	2.8 Y	NA
1,2-Dibromo-3-chloropropane	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
1,2-Dibromoethane	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
1,2-Dichlorobenzene	mg/kg	NA	10 UX	10 UX	38.2 Y	NA
1,2-Dichloroethane	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
1,2-Dichloropropane	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
1,3,5-Trimethylbenzene	mg/kg	NA	10 UX	10 UX	1 Y	NA
1,3-Dichlorobenzene	mg/kg	NA	10 UX	10 UX	1.4 Y	NA
1,4-Dichlorobenzene	mg/kg	NA	10 UX	10 UX	9.2 Y	NA
2-Butanone	mg/kg	NA	100 UX	100 UX	5 UY	NA
2-Hexanone	mg/kg	NA	100 UX	100 UX	5 UY	NA
2-Methylnaphthalene	mg/kg	NA	20 X	90 X	3 Y	NA
4-Methyl-2-pentanone	mg/kg	NA	100 UX	100 UX	5 UY	NA
Acetone	mg/kg	NA	100 UX	100 UX	5 UY	NA
Acrylonitrile	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Benzene	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Bromobenzene	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Bromochloromethane	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Bromodichloromethane	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Bromoform	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Bromomethane	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Carbon Disulfide	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Carbon Tetrachloride	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Chlorobenzene	mg/kg	NA	10 UX	10 UX	16 Y	NA
Chloroethane	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Chloroform	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Chloromethane	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
cis-1,2-Dichloroethene	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
cis-1,3-Dichloropropene	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Cyclohexane	mg/kg	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Dibromomethane	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Dichlorodifluoromethane	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Diethyl ether	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Ethylbenzene	mg/kg	NA	10 UX	10 UX	0.5 UY	NA

Table K-3

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	MW-83/84-07 05/07/13	MW-83/84-10 05/07/13	MW-83/84-12 05/07/13	MW-83/84-15 08/02/13	MW-83/84-34 02/14/14
Hexachloroethane	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Iodomethane	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Isopropylbenzene	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
m&p-Xylene	mg/kg	NA	20 UX	20 UX	1 UY	NA
Methyl acetate	mg/kg	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Methylcyclohexane	mg/kg	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	NA	20 UX	20 UX	1 UY	NA
Naphthalene	mg/kg	NA	20 UX	20 UX	13 Y	NA
n-Butylbenzene	mg/kg	NA	10 UX	10 UX	0.8 Y	NA
n-Propylbenzene	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
o-Xylene	mg/kg	NA	10 UX	10 UX	0.6 Y	NA
p-Isopropyltoluene	mg/kg	NA	10 UX	10 UX	0.8 Y	NA
sec-Butylbenzene	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Styrene	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
tert-Butylbenzene	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Tetrachloroethene	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Tetrahydrofuran	mg/kg	NA	100 UX	100 UX	5 UY	NA
Toluene	mg/kg	NA	10 UX	10 UX	0.6 Y	NA
trans-1,2-Dichloroethene	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
trans-1,3-Dichloropropene	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
trans-1,4-Dichloro-2-butene	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Trichloroethene	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Trichlorofluoromethane	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Vinyl Chloride	mg/kg	NA	10 UX	10 UX	0.5 UY	NA
Xylenes (total)	mg/kg	NA	10 U	10 U	0.6	NA
SVOC						
1,1'-Biphenyl	mg/kg	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
1,2-Dichlorobenzene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
1,2-Diphenylhydrazine	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
1,3-Dichlorobenzene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
1,4-Dichlorobenzene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
2,4,5-Trichlorophenol	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
2,4,6-Trichlorophenol	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
2,4-Dichlorophenol	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
2,4-Dimethylphenol	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
2,4-Dinitrophenol	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
2,4-Dinitrotoluene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
2,6-Dinitrotoluene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
2-Chloronaphthalene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
2-Chlorophenol	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
2-Methylnaphthalene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
2-Methylphenol	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
2-Nitroaniline	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
2-Nitrophenol	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA

Table K-3

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	MW-83/84-07 05/07/13	MW-83/84-10 05/07/13	MW-83/84-12 05/07/13	MW-83/84-15 08/02/13	MW-83/84-34 02/14/14
3&4-Methylphenol	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
3,3'-Dichlorobenzidine	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
3-Nitroaniline	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
4-Bromophenyl-phenylether	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
4-Chloro-3-Methylphenol	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
4-Chloroaniline	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
4-Chlorophenyl-phenylether	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
4-Nitroaniline	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
4-Nitrophenol	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Acenaphthene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Acenaphthylene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Acetophenone	mg/kg	NA	NA	NA	NA	NA
Anthracene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Atrazine	mg/kg	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Benzo(a)pyrene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Benzo(b)fluoranthene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Benzo(g,h,i)perylene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Benzo(k)fluoranthene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
bis(2-Chloroethoxy)methane	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
bis(2-Chloroethyl)ether	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Butylbenzylphthalate	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Caprolactam	mg/kg	NA	NA	NA	NA	NA
Carbazole	mg/kg	NA	NA	NA	NA	NA
Chrysene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Dibenzo(a,h)anthracene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Dibenzofuran	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Diethylphthalate	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Dimethylphthalate	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Di-n-Butylphthalate	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Di-n-Octylphthalate	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Fluoranthene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Fluorene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Hexachlorobenzene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Hexachlorobutadiene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Hexachlorocyclopentadiene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Hexachloroethane	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Indeno(1,2,3-cd)pyrene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Isophorone	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Methylphenols, Total	mg/kg	NA	149 U	147 U	145 U	NA
Naphthalene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Nitrobenzene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
N-Nitroso-di-n-propylamine	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
N-Nitrosodiphenylamine	mg/kg	NA	299 UXT	295 UXT	290 UXL	NA

Table K-3

Priority #12 - AOI 83/84-5 Cutting Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	MW-83/84-07 05/07/13	MW-83/84-10 05/07/13	MW-83/84-12 05/07/13	MW-83/84-15 08/02/13	MW-83/84-34 02/14/14
Pentachlorophenol	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Phenanthrene	mg/kg	NA	149 UXT	147 UXT	177 XL	NA
Phenol	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
Pyrene	mg/kg	NA	149 UXT	147 UXT	145 UXL	NA
PCB						
Aroclor-1016	mg/kg	1 U	2 U	1 U	1 U	1 U
Aroclor-1221	mg/kg	1 U	2 U	1 U	1 U	1 U
Aroclor-1232	mg/kg	1 U	2 U	1 U	1 U	1 U
Aroclor-1242	mg/kg	1 U	16	1 U	1 U	1 U
Aroclor-1248	mg/kg	1 U	2 U	1 U	1 U	1 U
Aroclor-1254	mg/kg	1 U	2 U	1 U	1 U	1 U
Aroclor-1260	mg/kg	1 U	2 U	1 U	1 U	1 U
Aroclor-1262	mg/kg	NA	NA	NA	NA	NA
Aroclor-1268	mg/kg	NA	NA	NA	NA	NA
Total PCBs	mg/kg	1 U	16	1 U	1 U	1 U
Inorganic						
Antimony	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	NA
Arsenic	mg/kg	5.14	1.33	18.1	0.45	NA
Barium	mg/kg	1 U	1.2	1 U	1 U	NA
Beryllium	mg/kg	0.2 U	0.2 U	0.2 U	0.2 U	NA
Cadmium	mg/kg	0.2 U	0.2 U	0.2 U	0.2 U	NA
Chromium Total	mg/kg	0.5 U	0.66	0.5 U	0.63	NA
Cobalt	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	NA
Copper	mg/kg	0.5 U	4.71	0.5 U	0.5 U	NA
Cyanide (total)	mg/kg	NA	NA	NA	NA	NA
Lead	mg/kg	0.3 U	15.6	1.76	0.3 U	NA
Manganese	mg/kg	0.5 U	1	0.5 U	0.5 U	NA
Mercury	mg/kg	NA	NA	NA	NA	NA
Nickel	mg/kg	0.54	0.66	0.5	0.5 U	NA
Selenium	mg/kg	0.4 U	0.4 U	0.4 U	0.4 U	NA
Silver	mg/kg	0.2 U	0.2 U	0.2 U	0.2 U	NA
Thallium	mg/kg	0.2 U	0.2 U	0.2 U	0.2 U	NA
Vanadium	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	NA
Zinc	mg/kg	1 U	1 U	1 U	1 U	NA
Miscellaneous						
Asbestos	mg/kg	NA	NA	NA	NA	NA
Ignitability	deg f	NA	NA	NA	NA	NA
Interfacial Tension	dynes/cm	NA	NA	NA	NA	NA
Specific gravity	sg	NA	NA	NA	NA	NA
Viscosity	cp	NA	NA	NA	NA	NA

Table L-1

Priority #13 - AOI 03-1 Quench Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	03-02 09/20/01	03-02 06/14/02	03-101 09/27/01	03-101 06/25/02	03-109 09/26/01	03-114 09/21/01	03-114R 03/31/03
VOC												
1,1,1-Trichloroethane	ug/L	- -	89	1,300,000	1,330,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	- -	78	77,000	2,970,000	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	- -	32	170,000	170,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/L	- -	330	110,000	4,420,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	1 U	1 U	1 U	1 U	1 U	1 U	2.4
1,2,4-Trichlorobenzene	ug/L	- -	99	300,000	300,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dibromo-3-chloropropane	ug/L	- -	- -	1,200	1,230	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ
1,2-Dibromoethane	ug/L	- -	5.7	15,000	4,200,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	ug/L	- -	13	160,000	156,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/L	2,500,000	360	59,000	8,520,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/L	550,000	230	36,000	2,800,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	ug/L	- -	28	41,000	111,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	ug/L	- -	17	74,000	73,800	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	ug/L	- -	2,200	240,000,000	240,000,000	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone	ug/L	- -	- -	8,700,000	16,000,000	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone	ug/L	- -	- -	20,000,000	20,000,000	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acetone	ug/L	15,000,000	1,700	1,000,000,000	1,000,000,000	25 U	25 U	0.74 J	25 U	25 U	25 U	25 U
Benzene	ug/L	68,000	200	35,000	1,750,000	1 U	1 U	1 U	1 U	0.66 J	1 U	1 U
Bromodichloromethane	ug/L	- -	- -	37,000	6,740,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/L	- -	- -	3,100,000	3,100,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/L	- -	35	9,000	14,500,000	1 UJ	1 U	1 U	1 U	1 UJ	1 U	1 U
Carbon Disulfide	ug/L	13,000	- -	550,000	1,190,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	ug/L	- -	45	2,400	793,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/L	160,000	25	470,000	472,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/L	110,000	1,100	5,700,000	5,740,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	ug/L	- -	350	180,000	7,920,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	ug/L	36,000	- -	45,000	6,340,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	0.81 J	1 U	42	31	1 U	0.53 J	23
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	ug/L	- -	- -	- -	- -	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	ug/L	- -	- -	110,000	2,600,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	ug/L	- -	- -	300,000	300,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	ug/L	43,000	18	170,000	169,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table L-1

Priority #13 - AOI 03-1 Quench Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	03-02 09/20/01	03-02 06/14/02	03-101 09/27/01	03-101 06/25/02	03-109 09/26/01	03-114 09/21/01	03-114R 03/31/03
Isopropylbenzene	ug/L	29,000	28	56,000	56,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
m&p-Xylene	ug/L	- -	- -	- -	- -	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Methyl acetate	ug/L	- -	- -	- -	- -	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether	ug/L	- -	7,100	47,000,000	46,800,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	ug/L	- -	1,500	1,400,000	17,000,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
o-Xylene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	ug/L	140,000	80	310,000	310,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	ug/L	- -	60	170,000	200,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	ug/L	61,000	270	530,000	526,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/L	230,000	1,500	200,000	6,300,000	1 U	1 U	1.4	0.82 J	1 U	1 U	2.9
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/L	- -	200	4,900	1,100,000	1 U	1 U	64 J	57	1 U	0.66 J	11
Trichlorofluoromethane	ug/L	- -	- -	1,100,000	1,100,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	ug/L	33,000	13	13,000	2,760,000	1 U	1 U	9.1	4.6	1 U	1 U	8.4
Xylenes (total)	ug/L	70,000	41	190,000	186,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SVOC												
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
2,4,5-Trichlorophenol	ug/L	- -	- -	- -	1,200,000	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
2,4,6-Trichlorophenol	ug/L	- -	5	- -	800,000	4.2 U	NA	4.2 U	NA	4.2 U	4.3 U	NA
2,4-Dichlorophenol	ug/L	- -	11	- -	4,500,000	11 U	NA	11 U	NA	11 U	11 U	NA
2,4-Dimethylphenol	ug/L	- -	380	- -	7,870,000	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	21 UJ	NA	21 U	NA	21 U	22 U	NA
2,4-Dinitrotoluene	ug/L	- -	- -	- -	270,000	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
2-Chloronaphthalene	ug/L	- -	- -	- -	6,740	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
2-Chlorophenol	ug/L	- -	18	1,100,000	22,000,000	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
2-Methylnaphthalene	ug/L	- -	19	25,000	24,600	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	21 U	NA	21 U	NA	21 U	22 U	NA
2-Nitrophenol	ug/L	- -	- -	- -	2,500,000	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
3&4-Methylphenol	ug/L	- -	- -	- -	- -	11 UJ	NA	11 UJ	NA	11 UJ	11 UJ	NA
3,3'-Dichlorobenzidine	ug/L	- -	0.3	- -	3,110	21 U	NA	21 U	NA	21 U	22 U	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	21 U	NA	21 U	NA	21 U	22 U	NA

Table L-1

Priority #13 - AOI 03-1 Quench Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	03-02 09/20/01	03-02 06/14/02	03-101 09/27/01	03-101 06/25/02	03-109 09/26/01	03-114 09/21/01	03-114R 03/31/03
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	21 U	NA	21 UJ	NA	21 UJ	22 U	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
4-Chloro-3-Methylphenol	ug/L	- -	7.4	- -	3,900,000	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
4-Chloroaniline	ug/L	- -	- -	- -	- -	21 U	NA	21 U	NA	21 U	22 U	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	R	NA	5.3 U	NA	5.3 U	R	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	21 U	NA	21 U	NA	21 U	22 U	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	21 UJ	NA	21 U	NA	21 U	22 U	NA
Acenaphthene	ug/L	- -	38	4,200	4,240	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
Acenaphthylene	ug/L	- -	- -	3,900	3,930	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
Acetophenone	ug/L	- -	- -	6,100,000	6,100,000	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
Anthracene	ug/L	- -	- -	43	43.4	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
Atrazine	ug/L	- -	7.3	- -	70,000	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
Benzo(a)anthracene	ug/L	- -	- -	- -	9.4	1.1 UJ	NA	1.1 U	NA	1.1 U	1.1 U	NA
Benzo(a)pyrene	ug/L	- -	- -	- -	1.62	2.1 U	NA	2.1 U	NA	2.1 U	2.2 U	NA
Benzo(b)fluoranthene	ug/L	- -	- -	- -	1.5	2.1 U	NA	2.1 U	NA	2.1 U	2.2 U	NA
Benzo(g,h,i)perylene	ug/L	- -	- -	- -	0.26	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
Benzo(k)fluoranthene	ug/L	- -	- -	- -	0.8	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000	1	210,000	17,200,000	1.1 U	NA	1.1 U	NA	1.1 U	1.1 U	NA
bis(2-Ethylhexyl)phthalate	ug/L	- -	25	- -	340	5.3 U	NA	5.3 U	NA	1.34 J	5.4 U	NA
Butylbenzylphthalate	ug/L	- -	67	- -	2,690	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
Caprolactam	ug/L	- -	- -	- -	5,250,000,000	11 U	NA	11 U	NA	11 U	11 U	NA
Carbazole	ug/L	- -	10	- -	7,480	11 U	NA	11 U	NA	11 U	11 U	NA
Chrysene	ug/L	- -	- -	- -	1.6	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
Dibenzo(a,h)anthracene	ug/L	- -	- -	- -	2.49	2.1 U	NA	2.1 U	NA	2.1 U	2.2 U	NA
Dibenzofuran	ug/L	- -	4	10,000	10,000	4.2 U	NA	4.2 U	NA	4.2 U	4.3 U	NA
Diethylphthalate	ug/L	- -	110	- -	1,080,000	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
Dimethylphthalate	ug/L	- -	- -	- -	4,190,000	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
Di-n-Butylphthalate	ug/L	- -	9.7	- -	11,200	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
Di-n-Octylphthalate	ug/L	- -	- -	- -	3,000	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
Fluoranthene	ug/L	- -	1.6	210	206	2.1 U	NA	2.1 U	NA	2.1 U	2.2 U	NA
Fluorene	ug/L	- -	12	2,000	1,980	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
Hexachlorobenzene	ug/L	- -	0.2	3,000	6,200	1.1 U	NA	1.1 U	NA	1.1 U	1.1 U	NA
Hexachlorobutadiene	ug/L	- -	0.053	3,200	3,230	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA

Table L-1

Priority #13 - AOI 03-1 Quench Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	03-02 09/20/01	03-02 06/14/02	03-101 09/27/01	03-101 06/25/02	03-109 09/26/01	03-114 09/21/01	03-114R 03/31/03
Hexachlorocyclopentadiene	ug/L	- -	- -	420	1,800	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
Hexachloroethane	ug/L	- -	6.7	50,000	50,000	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
Indeno(1,2,3-cd)pyrene	ug/L	- -	- -	- -	0.022	2.1 U	NA	2.1 U	NA	2.1 U	2.2 U	NA
Isophorone	ug/L	- -	1,300	- -	12,000,000	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
Methylphenols, Total	ug/L	- -	30	- -	28,000,000	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
Naphthalene	ug/L	- -	11	31,000	31,000	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
Nitrobenzene	ug/L	- -	180	550,000	2,090,000	2.1 U	NA	2.1 U	NA	2.1 U	2.2 U	NA
N-Nitroso-di-n-propylamine	ug/L	- -	- -	- -	9,890,000	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
N-Nitrosodiphenylamine	ug/L	- -	- -	- -	35,100	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
Pentachlorophenol	ug/L	- -	2.8	- -	1,850,000	21 U	NA	21 U	NA	21 U	22 U	NA
Phenanthrene	ug/L	- -	2	1,000	1,000	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
Phenol	ug/L	- -	450	- -	82,800,000	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
Pyrene	ug/L	- -	- -	140	135	5.3 U	NA	5.3 U	NA	5.3 U	5.4 U	NA
PCB												
Aroclor-1016	ug/L	- -	- -	- -	- -	0.11 U	NA	0.1 U	NA	0.11 U	0.11 U	NA
Aroclor-1221	ug/L	- -	- -	- -	- -	0.11 U	NA	0.1 U	NA	0.11 U	0.11 U	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	0.11 U	NA	0.1 U	NA	0.11 U	0.11 U	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	0.11 U	NA	0.1 U	NA	0.11 U	0.11 U	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	0.11 U	NA	0.1 U	NA	0.11 U	0.11 U	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	0.11 U	NA	0.1 U	NA	0.11 U	0.11 U	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	0.11 U	NA	0.1 U	NA	0.11 U	0.11 U	NA
Total PCBs	ug/L	- -	0.2	45	44.7	0.11 U	NA	0.1 U	NA	0.11 U	0.11 U	NA
PCB-Dissolved												
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.11 U	NA	0.11 U	0.11 U	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.11 U	NA	0.11 U	0.11 U	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.11 U	NA	0.11 U	0.11 U	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.11 U	NA	0.11 U	0.11 U	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.11 U	NA	0.11 U	0.11 U	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.11 U	NA	0.11 U	0.11 U	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.11 U	NA	0.11 U	0.11 U	NA
Total PCBs (Dissolved)	ug/L	- -	0.2	45	44.7	0.1 U	NA	0.11 U	NA	0.11 U	0.11 U	NA
Inorganic												
Antimony	ug/L	- -	130	- -	- -	NA	NA	NA	NA	NA	NA	NA
Arsenic	ug/L	- -	10	- -	- -	NA	NA	NA	NA	NA	NA	NA

Table L-1

Priority #13 - AOI 03-1 Quench Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	03-02 09/20/01	03-02 06/14/02	03-101 09/27/01	03-101 06/25/02	03-109 09/26/01	03-114 09/21/01	03-114R 03/31/03
Barium	ug/L	- -	1,300	- -	- -	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/L	- -	32	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/L	- -	4.8	- -	- -	NA	NA	NA	NA	NA	NA	NA
Chromium Total	ug/L	- -	170	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/L	- -	100	- -	- -	NA	NA	NA	NA	NA	NA	NA
Copper	ug/L	- -	22	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	ug/L	- -	5.2	- -	- -	5 U	NA	5 U	NA	5 U	5 U	NA
Lead	ug/L	- -	47	- -	- -	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/L	- -	4,900	- -	- -	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/L	- -	0.0013	56	56	0.2 U	NA	0.2 U	NA	0.2 U	0.2 U	NA
Nickel	ug/L	- -	120	- -	- -	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/L	- -	5	- -	- -	NA	NA	NA	NA	NA	NA	NA
Silver	ug/L	- -	0.2	- -	- -	NA	NA	NA	NA	NA	NA	NA
Thallium	ug/L	- -	3.7	- -	- -	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/L	- -	27	- -	- -	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/L	- -	280	- -	- -	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved												
Antimony (Dissolved)	ug/L	- -	130	- -	- -	1.2 U	NA	1.2 U	NA	1.2 U	1.2 U	NA
Arsenic (Dissolved)	ug/L	- -	10	- -	- -	3.6	NA	**29 (GSI (2013))**	NA	1 U	1.8 U	NA
Barium (Dissolved)	ug/L	- -	1,300	- -	- -	77 J	NA	49	NA	93	58	NA
Beryllium (Dissolved)	ug/L	- -	32	- -	- -	0.4 U	NA	0.4 U	NA	0.4 U	0.4 UJ	NA
Cadmium (Dissolved)	ug/L	- -	4.8	- -	- -	0.2 U	NA	0.2 U	NA	0.47	0.2 U	NA
Chromium Total (Dissolved)	ug/L	- -	170	- -	- -	0.6 U	NA	0.6 U	NA	0.6 U	0.6 U	NA
Cobalt (Dissolved)	ug/L	- -	100	- -	- -	0.43	NA	0.58	NA	0.45	0.2 U	NA
Copper (Dissolved)	ug/L	- -	22	- -	- -	5.2	NA	2.8	NA	7.6	18 J	NA
Cyanide (dissolved)	ug/L	- -	5.2	- -	- -	5 U	NA	3.3 J	NA	5 U	5 U	NA
Lead (Dissolved)	ug/L	- -	47	- -	- -	0.4 U	NA	0.4 U	NA	0.4 U	0.4 U	NA
Manganese (Dissolved)	ug/L	- -	4,900	- -	- -	460	NA	450 J	NA	1,500	270	NA
Mercury (Dissolved)	ug/L	- -	0.0013	- -	- -	0.2 U	NA	0.2 U	NA	0.2 U	0.2 U	NA
Nickel (Dissolved)	ug/L	- -	120	- -	- -	3	NA	2.1	NA	3.9	3.1	NA
Selenium (Dissolved)	ug/L	- -	5	- -	- -	1.4 U	NA	1.4 U	NA	1.4 U	2.6 J	NA
Silver (Dissolved)	ug/L	- -	0.2	- -	- -	**1.7 J (GSI (2013))**	NA	0.4 UJ	NA	0.4 U	0.4 UJ	NA
Thallium (Dissolved)	ug/L	- -	3.7	- -	- -	0.2 U	NA	0.2 U	NA	0.2 U	0.2 U	NA
Vanadium (Dissolved)	ug/L	- -	27	- -	- -	0.8 U	NA	0.8 U	NA	0.8 U	0.89	NA
Zinc (Dissolved)	ug/L	- -	280	- -	- -	180	NA	6.9	NA	110	29	NA

Table L-1

Priority #13 - AOI 03-1 Quench Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	70-100 09/24/01	70-100 06/13/02	70-100 03/27/03	RFI-03-02 02/26/02	RFI-03-02 06/13/02
VOC										
1,1,1-Trichloroethane	ug/L	- -	89	1,300,000	1,330,000	1 U	1 U	1 U	1 UJ	1 U [1 U]
1,1,2,2-Tetrachloroethane	ug/L	- -	78	77,000	2,970,000	1 U	1 U	1 U	1 U	1 U [1 U]
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	- -	32	170,000	170,000	1 U	1 U	1 U	1 U	1 U [1 U]
1,1,2-Trichloroethane	ug/L	- -	330	110,000	4,420,000	1 U	1 U	1 U	1 U	1 U [1 U]
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	1 U	1 U	1 U	1 U	1 U [1 U]
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	1 U	1 U	1 U	1 U	1 U [1 U]
1,2,4-Trichlorobenzene	ug/L	- -	99	300,000	300,000	5 U	5 U	5 U	5 U	5 U [5 U]
1,2-Dibromo-3-chloropropane	ug/L	- -	- -	1,200	1,230	1 U	1 U	1 U	1 U	1 U [1 U]
1,2-Dibromoethane	ug/L	- -	5.7	15,000	4,200,000	1 U	1 U	1 U	1 U	1 U [1 U]
1,2-Dichlorobenzene	ug/L	- -	13	160,000	156,000	1 U	1 U	1 U	1 U	1 U [1 U]
1,2-Dichloroethane	ug/L	2,500,000	360	59,000	8,520,000	1 U	1 U	1 U	1 U	1 U [1 U]
1,2-Dichloropropane	ug/L	550,000	230	36,000	2,800,000	1 U	1 U	1 U	1 U	1 U [1 U]
1,3-Dichlorobenzene	ug/L	- -	28	41,000	111,000	1 U	1 U	1 U	1 U	1 U [1 U]
1,4-Dichlorobenzene	ug/L	- -	17	74,000	73,800	1 U	1 U	1 U	1 U	1 U [1 U]
2-Butanone	ug/L	- -	2,200	240,000,000	240,000,000	25 U	25 U	25 U	25 U	25 U [25 U]
2-Hexanone	ug/L	- -	- -	8,700,000	16,000,000	50 U	50 U	50 U	50 U	50 U [50 U]
4-Methyl-2-pentanone	ug/L	- -	- -	20,000,000	20,000,000	50 U	50 U	50 U	50 U	50 U [50 U]
Acetone	ug/L	15,000,000	1,700	1,000,000,000	1,000,000,000	25 U	25 U	25 U	8 J	25 U [25 U]
Benzene	ug/L	68,000	200	35,000	1,750,000	1 U	1 U	1 U	1 U	1 U [1 U]
Bromodichloromethane	ug/L	- -	- -	37,000	6,740,000	1 U	1 U	1 U	1 U	1 U [1 U]
Bromoform	ug/L	- -	- -	3,100,000	3,100,000	1 U	1 U	1 U	1 U	1 U [1 U]
Bromomethane	ug/L	- -	35	9,000	14,500,000	1 U	1 U	1 U	1 UJ	1 U [1 U]
Carbon Disulfide	ug/L	13,000	- -	550,000	1,190,000	5 U	5 U	5 UJ	5 U	5 U [5 U]
Carbon Tetrachloride	ug/L	- -	45	2,400	793,000	1 U	1 U	1 U	1 U	1 U [1 U]
Chlorobenzene	ug/L	160,000	25	470,000	472,000	1 U	1 U	1 U	1 U	1 U [1 U]
Chloroethane	ug/L	110,000	1,100	5,700,000	5,740,000	1 U	1 U	1 U	1 U	1 U [1 U]
Chloroform	ug/L	- -	350	180,000	7,920,000	1 U	1 U	1 U	1 U	1 U [1 U]
Chloromethane	ug/L	36,000	- -	45,000	6,340,000	1 U	1 U	1 U	1 U	1 U [1 U]
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	0.59 J	0.71 J	1 U	1 U	1 U [1 U]
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U [1 U]
Cyclohexane	ug/L	- -	- -	- -	- -	5 U	5 U	5 U	5 UJ	5 U [5 U]
Dibromochloromethane	ug/L	- -	- -	110,000	2,600,000	1 U	1 U	1 U	1 U	1 U [1 U]
Dichlorodifluoromethane	ug/L	- -	- -	300,000	300,000	1 U	1 U	1 U	1 U	1 U [1 U]
Ethylbenzene	ug/L	43,000	18	170,000	169,000	1 U	1 U	1 U	1 U	1 U [1 U]

Table L-1

Priority #13 - AOI 03-1 Quench Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	70-100 09/24/01	70-100 06/13/02	70-100 03/27/03	RFI-03-02 02/26/02	RFI-03-02 06/13/02
Isopropylbenzene	ug/L	29,000	28	56,000	56,000	5 U	5 U	5 U	5 U	5 U [5 U]
m&p-Xylene	ug/L	- -	- -	- -	- -	2 U	2 U	2 U	2 U	2 U [2 U]
Methyl acetate	ug/L	- -	- -	- -	- -	5 U	5 U	5 UJ	5 U	5 U [5 U]
Methyl tert-butyl ether	ug/L	- -	7,100	47,000,000	46,800,000	5 U	5 U	5 U	5 UJ	5 U [5 U]
Methylcyclohexane	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1	1 U [1 U]
Methylene Chloride	ug/L	- -	1,500	1,400,000	17,000,000	5 U	5 U	5 U	5 U	5 U [5 U]
o-Xylene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U [1 U]
Styrene	ug/L	140,000	80	310,000	310,000	1 U	1 U	1 U	1 U	1 U [1 U]
Tetrachloroethene	ug/L	- -	60	170,000	200,000	1 U	1 U	1 U	1 U	1 U [1 U]
Toluene	ug/L	61,000	270	530,000	526,000	1 U	1 U	1 U	1 U	1 U [1 U]
trans-1,2-Dichloroethene	ug/L	230,000	1,500	200,000	6,300,000	1 U	1 U	1 U	1 U	1 U [1 U]
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U [1 U]
Trichloroethene	ug/L	- -	200	4,900	1,100,000	1 U	1 U	1 U	2.6	2.1 [2]
Trichlorofluoromethane	ug/L	- -	- -	1,100,000	1,100,000	1 U	1 U	1 U	1 U	1 U [1 U]
Vinyl Chloride	ug/L	33,000	13	13,000	2,760,000	3	2.9 J	2.7	1 U	1 U [1 U]
Xylenes (total)	ug/L	70,000	41	190,000	186,000	1 U	1 U	1 U	1 U	1 U [1 U]
SVOC										
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	5 U	NA	NA	0.76 J	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	5 U	NA	NA	0.76 J	NA
2,4,5-Trichlorophenol	ug/L	- -	- -	- -	1,200,000	5 U	NA	NA	5 U	NA
2,4,6-Trichlorophenol	ug/L	- -	5	- -	800,000	4 U	NA	NA	4 U	NA
2,4-Dichlorophenol	ug/L	- -	11	- -	4,500,000	10 U	NA	NA	10 U	NA
2,4-Dimethylphenol	ug/L	- -	380	- -	7,870,000	5 U	NA	NA	5 U	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	20 UJ	NA	NA	20 U	NA
2,4-Dinitrotoluene	ug/L	- -	- -	- -	270,000	5 U	NA	NA	5 U	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	5 U	NA	NA	5 U	NA
2-Chloronaphthalene	ug/L	- -	- -	- -	6,740	5 U	NA	NA	5 U	NA
2-Chlorophenol	ug/L	- -	18	1,100,000	22,000,000	5 U	NA	NA	5 U	NA
2-Methylnaphthalene	ug/L	- -	19	25,000	24,600	5 U	NA	NA	0.6 J	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	5 U	NA	NA	5 U	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	20 U	NA	NA	20 U	NA
2-Nitrophenol	ug/L	- -	- -	- -	2,500,000	5 U	NA	NA	5 U	NA
3&4-Methylphenol	ug/L	- -	- -	- -	- -	10 UJ	NA	NA	10 UJ	NA
3,3'-Dichlorobenzidine	ug/L	- -	0.3	- -	3,110	20 U	NA	NA	20 U	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	20 U	NA	NA	20 U	NA

Table L-1

Priority #13 - AOI 03-1 Quench Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	70-100 09/24/01	70-100 06/13/02	70-100 03/27/03	RFI-03-02 02/26/02	RFI-03-02 06/13/02
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	20 UJ	NA	NA	20 U	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	5 U	NA	NA	5 U	NA
4-Chloro-3-Methylphenol	ug/L	- -	7.4	- -	3,900,000	5 U	NA	NA	5 U	NA
4-Chloroaniline	ug/L	- -	- -	- -	- -	20 U	NA	NA	20 U	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	R	NA	NA	5 U	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	20 U	NA	NA	20 U	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	20 U	NA	NA	20 U	NA
Acenaphthene	ug/L	- -	38	4,200	4,240	5 U	NA	NA	0.61 J	NA
Acenaphthylene	ug/L	- -	- -	3,900	3,930	5 U	NA	NA	5 U	NA
Acetophenone	ug/L	- -	- -	6,100,000	6,100,000	5 U	NA	NA	0.79 J	NA
Anthracene	ug/L	- -	- -	43	43.4	5 U	NA	NA	5 U	NA
Atrazine	ug/L	- -	7.3	- -	70,000	5 U	NA	NA	5 U	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	5 UJ	NA	NA	1.26 J	NA
Benzo(a)anthracene	ug/L	- -	- -	- -	9.4	1 U	NA	NA	1 U	NA
Benzo(a)pyrene	ug/L	- -	- -	- -	1.62	2 U	NA	NA	2 U	NA
Benzo(b)fluoranthene	ug/L	- -	- -	- -	1.5	2 U	NA	NA	2 U	NA
Benzo(g,h,i)perylene	ug/L	- -	- -	- -	0.26	5 U	NA	NA	5 U	NA
Benzo(k)fluoranthene	ug/L	- -	- -	- -	0.8	5 U	NA	NA	5 U	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	5 U	NA	NA	5 U	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000	1	210,000	17,200,000	1 U	NA	NA	1 U	NA
bis(2-Ethylhexyl)phthalate	ug/L	- -	25	- -	340	5 U	NA	NA	5 U	NA
Butylbenzylphthalate	ug/L	- -	67	- -	2,690	5 U	NA	NA	5 U	NA
Caprolactam	ug/L	- -	- -	- -	5,250,000,000	10 U	NA	NA	10 U	NA
Carbazole	ug/L	- -	10	- -	7,480	10 U	NA	NA	10 U	NA
Chrysene	ug/L	- -	- -	- -	1.6	5 U	NA	NA	5 U	NA
Dibenzo(a,h)anthracene	ug/L	- -	- -	- -	2.49	2 U	NA	NA	2 U	NA
Dibenzofuran	ug/L	- -	4	10,000	10,000	4 U	NA	NA	4 U	NA
Diethylphthalate	ug/L	- -	110	- -	1,080,000	5 U	NA	NA	1.23 J	NA
Dimethylphthalate	ug/L	- -	- -	- -	4,190,000	5 U	NA	NA	5 U	NA
Di-n-Butylphthalate	ug/L	- -	9.7	- -	11,200	5 U	NA	NA	5 U	NA
Di-n-Octylphthalate	ug/L	- -	- -	- -	3,000	5 U	NA	NA	5 U	NA
Fluoranthene	ug/L	- -	1.6	210	206	2 U	NA	NA	2 U	NA
Fluorene	ug/L	- -	12	2,000	1,980	5 U	NA	NA	0.62 J	NA
Hexachlorobenzene	ug/L	- -	0.2	3,000	6,200	1 U	NA	NA	1 U	NA
Hexachlorobutadiene	ug/L	- -	0.053	3,200	3,230	5 U	NA	NA	5 U	NA

Table L-1

Priority #13 - AOI 03-1 Quench Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	70-100 09/24/01	70-100 06/13/02	70-100 03/27/03	RFI-03-02 02/26/02	RFI-03-02 06/13/02
Hexachlorocyclopentadiene	ug/L	- -	- -	420	1,800	5 U	NA	NA	5 U	NA
Hexachloroethane	ug/L	- -	6.7	50,000	50,000	5 U	NA	NA	5 U	NA
Indeno(1,2,3-cd)pyrene	ug/L	- -	- -	- -	0.022	2 U	NA	NA	2 U	NA
Isophorone	ug/L	- -	1,300	- -	12,000,000	5 U	NA	NA	5 U	NA
Methylphenols, Total	ug/L	- -	30	- -	28,000,000	5 U	NA	NA	5 U	NA
Naphthalene	ug/L	- -	11	31,000	31,000	5 U	NA	NA	0.75 J	NA
Nitrobenzene	ug/L	- -	180	550,000	2,090,000	2 U	NA	NA	0.63 J	NA
N-Nitroso-di-n-propylamine	ug/L	- -	- -	- -	9,890,000	5 U	NA	NA	5 U	NA
N-Nitrosodiphenylamine	ug/L	- -	- -	- -	35,100	5 U	NA	NA	5 U	NA
Pentachlorophenol	ug/L	- -	2.8	- -	1,850,000	20 U	NA	NA	20 U	NA
Phenanthrene	ug/L	- -	2	1,000	1,000	5 U	NA	NA	5 U	NA
Phenol	ug/L	- -	450	- -	82,800,000	5 U	NA	NA	5 U	NA
Pyrene	ug/L	- -	- -	140	135	5 U	NA	NA	5 U	NA
PCB										
Aroclor-1016	ug/L	- -	- -	- -	- -	0.11 U	NA	NA	0.11 U	NA
Aroclor-1221	ug/L	- -	- -	- -	- -	0.11 U	NA	NA	0.11 U	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	0.11 U	NA	NA	0.11 U	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	0.11 U	NA	NA	0.11 U	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	0.11 U	NA	NA	0.11 U	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	0.11 U	NA	NA	0.11 U	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	0.11 U	NA	NA	0.11 U	NA
Total PCBs	ug/L	- -	0.2	45	44.7	0.11 U	NA	NA	0.11 U	NA
PCB-Dissolved										
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	NA	NA	0.1 U	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	NA	NA	0.1 U	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	NA	NA	0.1 U	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	NA	NA	0.1 U	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	NA	NA	0.1 U	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	NA	NA	0.1 U	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	NA	NA	0.1 U	NA
Total PCBs (Dissolved)	ug/L	- -	0.2	45	44.7	0.11 U	NA	NA	0.1 U	NA
Inorganic										
Antimony	ug/L	- -	130	- -	- -	NA	NA	NA	NA	1.2 U [1.2 U]
Arsenic	ug/L	- -	10	- -	- -	NA	NA	NA	NA	3.1 [2.6]

Table L-1

Priority #13 - AOI 03-1 Quench Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	70-100 09/24/01	70-100 06/13/02	70-100 03/27/03	RFI-03-02 02/26/02	RFI-03-02 06/13/02
Barium	ug/L	- -	1,300	- -	- -	NA	NA	NA	NA	200 J [210 J]
Beryllium	ug/L	- -	32	- -	- -	NA	NA	NA	NA	0.4 UJ [0.4 UJ]
Cadmium	ug/L	- -	4.8	- -	- -	NA	NA	NA	NA	0.09 J [0.09 J]
Chromium Total	ug/L	- -	170	- -	- -	NA	NA	NA	NA	1.7 [1.2]
Cobalt	ug/L	- -	100	- -	- -	NA	NA	NA	NA	0.3 [0.3]
Copper	ug/L	- -	22	- -	- -	NA	NA	NA	NA	22 [8.3]
Cyanide (total)	ug/L	- -	5.2	- -	- -	1.6 J	NA	NA	**7.4 (GSI (2013))**	NA
Lead	ug/L	- -	47	- -	- -	NA	NA	NA	NA	1.3 J [1.1 J]
Manganese	ug/L	- -	4,900	- -	- -	NA	NA	NA	NA	170 [170]
Mercury	ug/L	- -	0.0013	56	56	0.2 U	NA	NA	0.2 U	0.2 U [0.2 U]
Nickel	ug/L	- -	120	- -	- -	NA	NA	NA	NA	3 [2.8]
Selenium	ug/L	- -	5	- -	- -	NA	NA	NA	NA	0.6 J [1.4 U]
Silver	ug/L	- -	0.2	- -	- -	NA	NA	NA	NA	0.4 UJ [0.4 UJ]
Thallium	ug/L	- -	3.7	- -	- -	NA	NA	NA	NA	0.2 U [0.2 U]
Vanadium	ug/L	- -	27	- -	- -	NA	NA	NA	NA	0.8 U [0.8 U]
Zinc	ug/L	- -	280	- -	- -	NA	NA	NA	NA	11 J [8.9 J]
Inorganic-Dissolved										
Antimony (Dissolved)	ug/L	- -	130	- -	- -	1.2 U	NA	NA	3.2 J	NA
Arsenic (Dissolved)	ug/L	- -	10	- -	- -	9.6 J	NA	NA	**11 (GSI (2013))**	NA
Barium (Dissolved)	ug/L	- -	1,300	- -	- -	68 J	NA	NA	74 J	NA
Beryllium (Dissolved)	ug/L	- -	32	- -	- -	0.4 U	NA	NA	**43 J (GSI (2013))**	NA
Cadmium (Dissolved)	ug/L	- -	4.8	- -	- -	0.32 J	NA	NA	3.7 J	NA
Chromium Total (Dissolved)	ug/L	- -	170	- -	- -	0.79	NA	NA	7 J	NA
Cobalt (Dissolved)	ug/L	- -	100	- -	- -	0.29	NA	NA	3 J	NA
Copper (Dissolved)	ug/L	- -	22	- -	- -	1.7	NA	NA	13 J	NA
Cyanide (dissolved)	ug/L	- -	5.2	- -	- -	1.6 J	NA	NA	**7.1 (GSI (2013))**	NA
Lead (Dissolved)	ug/L	- -	47	- -	- -	0.4 U	NA	NA	1 J	NA
Manganese (Dissolved)	ug/L	- -	4,900	- -	- -	150 J	NA	NA	110 J	NA
Mercury (Dissolved)	ug/L	- -	0.0013	- -	- -	0.2 U	NA	NA	0.2 U	NA
Nickel (Dissolved)	ug/L	- -	120	- -	- -	6.8	NA	NA	16 J	NA
Selenium (Dissolved)	ug/L	- -	5	- -	- -	2.1 J	NA	NA	**190 (GSI (2013))**	NA
Silver (Dissolved)	ug/L	- -	0.2	- -	- -	0.4 UJ	NA	NA	**2.1 J (GSI (2013))**	NA
Thallium (Dissolved)	ug/L	- -	3.7	- -	- -	0.2 U	NA	NA	1.9	NA
Vanadium (Dissolved)	ug/L	- -	27	- -	- -	0.8 U	NA	NA	6.5	NA
Zinc (Dissolved)	ug/L	- -	280	- -	- -	6 U	NA	NA	32 J	NA

Table L-2

Priority #13 - AOI 03-1 Quench Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	03-03R2 3 - 4 10/17/13	03-03R2 12 - 14 10/17/13	03-03R2 16 - 17 10/17/13
VOC											
1,1,1,2-Tetrachloroethane	mg/kg	440	- -	2,200	530,000	33	120	- -	0.1 U	0.2 U	0.1 U
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.06 U	0.1 U	0.07 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.06 U	0.1 U	0.07 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.06 U	0.1 U	0.07 U
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.06 U	0.1 U	0.07 U
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.06 U	0.1 U	0.07 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.4 U	0.75 U	0.47 U
1,2,3-Trichloropropane	mg/kg	830	- -	4,200	8,800	7.5	11	- -	0.1 U	0.2 U	0.1 U
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1	3.5	0.1 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.4 U	0.75 U	0.47 U
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000	36,000,000	8,000	25,000	- -	0.1	**4.8 (GSIP (2013))**	0.1 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.3 U	0.6 U	0.4 U
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.02 UM	0.05 UM	0.03 UM
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.1 U	**0.4 (GSIP (2013))**	0.1 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.06 U	0.1 U	0.07 U
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.06 U	0.1 U	0.07 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000	36,000,000	4,800	19,000	- -	0.1 U	1.1	0.1 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.1 U	0.2 U	0.1 U
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.1 U	0.2 U	0.1 U
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.9 U	1.7 U	1.1 U
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	3 U	6 U	4 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.4 U	3.82	0.47 U
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	3 U	6 U	4 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	1 U	2 U	1 U
Acrylonitrile	mg/kg	8,300	0.1	74	58,000	35	17	- -	0.1 U	0.2 U	0.1 U
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.06 U	0.4	0.07 U
Bromobenzene	mg/kg	760	- -	1,700	240,000	580	540	- -	0.1 U	0.2 U	0.1 U
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.2 U	0.1 U
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.1 U	0.2 U	0.1 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.1 U	0.2 U	0.1 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.2 U	0.5 U	0.3 U
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.3 U	0.6 U	0.4 U
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.06 U	0.1 U	0.07 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.06 U	0.1 U	0.07 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.3 U	0.6 U	0.4 U
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.06 U	0.1 U	0.07 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.3 U	0.6 U	0.4 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.06 U	0.1 U	0.07 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.1 U	0.07 U
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.1 U	0.2 U	0.1 U
Dibromomethane	mg/kg	2,000	- -	8,000	- -	- -	- -	- -	0.3 U	0.6 U	0.4 U
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.3 U	0.6 U	0.4 U
Diethyl ether	mg/kg	7,400	- -	360,000	350,000,000	52,000	100,000	- -	0.2 U	0.5 U	0.3 U

Table L-2

Priority #13 - AOI 03-1 Quench Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	03-03R2 3 - 4 10/17/13	03-03R2 12 - 14 10/17/13	03-03R2 16 - 17 10/17/13
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.06 U	**0.5 (GSIP (2013))**	0.07 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.4 U	0.7 U	0.4 U
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.2 U	0.1 U
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.3 U	2.6	0.4 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.3	0.1 U
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.2 U	0.5 U	0.3 U
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.1 U	0.2 U	0.1 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.4 U	**4.01 (GSIP (2013))**	0.47 U
n-Butylbenzene	mg/kg	10,000	- -	8,000	880,000	- -	- -	- -	0.06	5.2	0.07 U
n-Propylbenzene	mg/kg	10,000	- -	8,000	590,000	- -	- -	- -	0.1 U	7.1	0.1 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.2	0.07 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.9	0.1 U
sec-Butylbenzene	mg/kg	10,000	- -	8,000	180,000	- -	- -	- -	0.06 U	3.7	0.07 U
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.06 U	0.1 U	0.07 U
tert-Butylbenzene	mg/kg	10,000	- -	8,000	290,000	- -	- -	- -	0.06 U	0.3	0.07 U
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.06 U	0.1 U	0.07 U
Tetrahydrofuran	mg/kg	120,000	220	9,500	170,000,000	2,400	15,000	- -	1 U	2 U	1 U
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.1 U	0.2 U	0.1 U
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.06 U	0.1 U	0.07 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.1 U	0.07 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.1 U	0.07 U
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.06 U	0.1 U	0.07 U
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.1 U	0.2 U	0.1 U
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.06 U	0.1 U	0.07 U
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	0.06 U	0.2	0.07 U
SVOC											
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.366 UX	3.3 UX	0.33 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.366 UX	3.3 UX	0.33 U
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.366 UX	3.3 UX	0.33 U
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.366 UX	3.3 UX	0.33 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	3.3 UX	0.83 U
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.366 UX	3.3 UX	0.33 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.366 UX	3.3 UX	0.33 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	3.3 UX	0.83 U

Table L-2

Priority #13 - AOI 03-1 Quench Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	03-03R2 3 - 4 10/17/13	03-03R2 12 - 14 10/17/13	03-03R2 16 - 17 10/17/13
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	2 U	3.3 UX	2 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	3.3 UX	0.83 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	0.83 U	3.3 UX	0.83 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.366 UX	3.3 UX	0.28 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	3.3 UX	0.83 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	3.3 UX	0.83 U
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.366 UX	3.3 UX	0.33 U
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.366 UX	3.3 UX	0.33 U
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.366 UX	3.3 UX	0.33 U
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.366 UX	3.3 UX	0.33 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.366 UX	3.3 UX	0.33 U
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	0.366 UX	3.3 UX	0.33 U
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.366 UX	3.3 UX	0.33 U
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.366 UX	3.3 UX	0.33 U
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.366 UX	3.3 UX	0.33 U
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.366 UX	3.3 UX	0.33 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.366 UX	3.3 UX	0.33 U
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.366 U	3.3 U	0.33 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.366 UX	3.3 UX	0.33 U
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.366 UX	3.3 UX	0.33 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.733 UX	3.3 UX	0.33 U
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	0.366 UX	3.3 UX	0.33 U

Table L-2

Priority #13 - AOI 03-1 Quench Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft.): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	03-03R2 3 - 4 10/17/13	03-03R2 12 - 14 10/17/13	03-03R2 16 - 17 10/17/13
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	0.366 UX	3.3 UX	0.33 U
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.366 UX	3.3 UX	0.33 U
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	0.366 UX	4.6 X	0.33 U
PCB											
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.33 U	0.33 U	0.33 U
Inorganic											
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	0.5 U	0.5 U	0.5 U
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	3.14	**7.24 (GSIP (2013),SDBL (2013))**	4.6
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	49.7	**96.7 (SDBL (2013))**	48
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	0.2 U	0.72	0.21
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	0.27	0.96	0.2 U
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	10.3	13.8	4.42
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	**2.23 (GSIP (2013))**	**4.46 (GSIP (2013))**	**5.47 (GSIP (2013))**
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	**173 (GSIP (2013),SDBL (2013))**	20.8	14.7
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	0.1 U	0.2 U	0.1 U
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	**90.9 (SDBL (2013))**	13.9	7.97
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	**181 (GSIP (2013))**	**266 (GSIP (2013))**	**388 (GSIP (2013))**
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	0.05 U	**0.188 (GSIP (2013),SDBL (2013))**	0.05 U
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	**23.9 (SDBL (2013))**	10.4	16.7
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	0.4 U	**0.93 (GSIP (2013),SDBL (2013))**	0.4 U
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	0.2 U	0.2 U	0.2 U
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.2 U	0.2 U	0.2 U
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	5.38	43.8	8.57
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	46.4	**82.2 (SDBL (2013))**	19.5
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	910,000	610,000	830,000

Table L-3

Priority #13 - AOI 03-1 Quench Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	03-03 02/27/02	03-03R2 11/05/13
VOC			
1,1,1-Trichloroethane	mg/kg	1.3 U	NA
1,1,2,2-Tetrachloroethane	mg/kg	1.3 U	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	6.3 U	NA
1,1,2-Trichloroethane	mg/kg	1.3 U	NA
1,1-Dichloroethane	mg/kg	1.3 U	NA
1,1-Dichloroethene	mg/kg	1.3 U	NA
1,2,4-Trichlorobenzene	mg/kg	1.3 U	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.3 U	NA
1,2-Dibromoethane	mg/kg	1.3 U	NA
1,2-Dichlorobenzene	mg/kg	4.3 J	NA
1,2-Dichloroethane	mg/kg	1.3 U	NA
1,2-Dichloropropane	mg/kg	1.3 U	NA
1,3-Dichlorobenzene	mg/kg	1.3 U	NA
1,4-Dichlorobenzene	mg/kg	1.3 U	NA
2-Butanone	mg/kg	6.3 U	NA
2-Hexanone	mg/kg	6.3 U	NA
4-Methyl-2-pentanone	mg/kg	6.3 U	NA
Acetone	mg/kg	5.8 J	NA
Benzene	mg/kg	0.84 J	NA
Bromodichloromethane	mg/kg	1.3 U	NA
Bromoform	mg/kg	1.3 U	NA
Bromomethane	mg/kg	1.3 UJ	NA
Carbon Disulfide	mg/kg	1.3 U	NA
Carbon Tetrachloride	mg/kg	1.3 U	NA
Chlorobenzene	mg/kg	1.3 U	NA
Chloroethane	mg/kg	1.3 UJ	NA
Chloroform	mg/kg	1.3 U	NA
Chloromethane	mg/kg	1.3 U	NA
cis-1,2-Dichloroethene	mg/kg	1.3 U	NA
cis-1,3-Dichloropropene	mg/kg	1.3 U	NA
Cyclohexane	mg/kg	6.3 U	NA

Table L-3

Priority #13 - AOI 03-1 Quench Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	03-03 02/27/02	03-03R2 11/05/13
Dibromochloromethane	mg/kg	1.3 U	NA
Dichlorodifluoromethane	mg/kg	1.3 U	NA
Ethylbenzene	mg/kg	1.3 U	NA
Isopropylbenzene	mg/kg	19 J	NA
m&p-Xylene	mg/kg	1.2 J	NA
Methyl acetate	mg/kg	6.3 U	NA
Methyl tert-butyl ether	mg/kg	1.3 U	NA
Methylcyclohexane	mg/kg	14 J	NA
Methylene Chloride	mg/kg	6.3 UJ	NA
o-Xylene	mg/kg	1.3 U	NA
Styrene	mg/kg	1.3 U	NA
Tetrachloroethene	mg/kg	1.3 U	NA
Toluene	mg/kg	1.3 U	NA
trans-1,2-Dichloroethene	mg/kg	1.3 U	NA
trans-1,3-Dichloropropene	mg/kg	1.3 U	NA
Trichloroethene	mg/kg	1.3 U	NA
Trichlorofluoromethane	mg/kg	1.3 UJ	NA
Vinyl Chloride	mg/kg	1.3 U	NA
Xylenes (total)	mg/kg	1.3 U	NA
SVOC			
1,1'-Biphenyl	mg/kg	490 U	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	490 U	NA
2,4,5-Trichlorophenol	mg/kg	490 U	NA
2,4-Dinitrophenol	mg/kg	2,000 U	NA
2,4-Dinitrotoluene	mg/kg	490 U	NA
2,6-Dinitrotoluene	mg/kg	490 U	NA
2-Chloronaphthalene	mg/kg	490 U	NA
2-Chlorophenol	mg/kg	490 U	NA
2-Methylnaphthalene	mg/kg	71 J	NA
2-Methylphenol	mg/kg	490 U	NA
2-Nitroaniline	mg/kg	2,000 U	NA
2-Nitrophenol	mg/kg	490 U	NA

Table L-3

Priority #13 - AOI 03-1 Quench Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	03-03 02/27/02	03-03R2 11/05/13
3&4-Methylphenol	mg/kg	990 UJ	NA
3,3'-Dichlorobenzidine	mg/kg	2,000 U	NA
3-Nitroaniline	mg/kg	2,000 U	NA
4,6-Dinitro-2-methylphenol	mg/kg	2,000 U	NA
4-Bromophenyl-phenylether	mg/kg	490 U	NA
4-Chloro-3-Methylphenol	mg/kg	490 U	NA
4-Chloroaniline	mg/kg	2,000 U	NA
4-Chlorophenyl-phenylether	mg/kg	490 U	NA
4-Nitroaniline	mg/kg	2,000 UJ	NA
4-Nitrophenol	mg/kg	2,000 U	NA
Acenaphthene	mg/kg	490 U	NA
Acenaphthylene	mg/kg	490 U	NA
Acetophenone	mg/kg	490 U	NA
Anthracene	mg/kg	490 U	NA
Atrazine	mg/kg	490 U	NA
Benzaldehyde	mg/kg	490 UJ	NA
Benzo(a)anthracene	mg/kg	82 J	NA
Benzo(a)pyrene	mg/kg	92 J	NA
Benzo(b)fluoranthene	mg/kg	94 J	NA
Benzo(g,h,i)perylene	mg/kg	490 U	NA
Benzo(k)fluoranthene	mg/kg	83 J	NA
bis(2-Chloroethoxy)methane	mg/kg	490 U	NA
bis(2-Chloroethyl)ether	mg/kg	490 U	NA
bis(2-Ethylhexyl)phthalate	mg/kg	490 U	NA
Butylbenzylphthalate	mg/kg	490 U	NA
Caprolactam	mg/kg	490 U	NA
Carbazole	mg/kg	490 U	NA
Chrysene	mg/kg	120 J	NA
Dibenzo(a,h)anthracene	mg/kg	490 U	NA
Dibenzofuran	mg/kg	490 U	NA
Diethylphthalate	mg/kg	490 U	NA
Dimethylphthalate	mg/kg	490 U	NA

Table L-3

Priority #13 - AOI 03-1 Quench Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	03-03 02/27/02	03-03R2 11/05/13
Di-n-Butylphthalate	mg/kg	490 U	NA
Di-n-Octylphthalate	mg/kg	490 U	NA
Fluoranthene	mg/kg	110 J	NA
Fluorene	mg/kg	490 U	NA
Hexachlorobenzene	mg/kg	490 U	NA
Hexachlorobutadiene	mg/kg	490 U	NA
Hexachlorocyclopentadiene	mg/kg	490 U	NA
Hexachloroethane	mg/kg	490 U	NA
Indeno(1,2,3-cd)pyrene	mg/kg	490 U	NA
Isophorone	mg/kg	490 U	NA
Methylphenols, Total	mg/kg	490 U	NA
Naphthalene	mg/kg	490 U	NA
Nitrobenzene	mg/kg	490 U	NA
N-Nitroso-di-n-propylamine	mg/kg	490 U	NA
N-Nitrosodiphenylamine	mg/kg	490 U	NA
Pentachlorophenol	mg/kg	2,000 UJ	NA
Phenanthrene	mg/kg	100 J	NA
Phenol	mg/kg	490 U	NA
Pyrene	mg/kg	130 J	NA
PCB			
Aroclor-1016	mg/kg	NA	2 UY
Aroclor-1221	mg/kg	NA	2 UY
Aroclor-1232	mg/kg	NA	2 UY
Aroclor-1242	mg/kg	NA	2 UY
Aroclor-1248	mg/kg	NA	2 UY
Aroclor-1254	mg/kg	NA	6 Y
Aroclor-1260	mg/kg	NA	2 UY
Total PCBs	mg/kg	NA	6
Miscellaneous			
Interfacial Tension	dynes/cm	2.8	NA
Specific gravity	sg	0.90	NA
Viscosity	cp	25.9	NA

Table M-1

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	IGVIA (2013)	WS (2013)	RFI-02-12 03/26/03	RFI-02-12 10/05/04	RFI-02-12 02/24/05	RFI-02-12 11/01/06	RFI-02-12 10/31/07	RFI-02-12 09/11/08	RFI-02-13 12/19/02
VOC												
1,1,1,2-Tetrachloroethane	ug/L	- -	- -	96,000	1,100,000	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/L	- -	89	1,300,000	1,330,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
1,1,2,2-Tetrachloroethane	ug/L	- -	78	77,000	2,970,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	- -	32	170,000	170,000	NA	30 U [30 U]	30 U	30 U	30 U	30 U	NA
1,1,2-Trichloroethane	ug/L	- -	330	110,000	4,420,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	NA	1 U [1 U]	0.6 J	1 U	1 U	1 U	NA
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	ug/L	- -	- -	18,000	1,900,000	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	- -	99	300,000	300,000	NA	2 U [2 U]	2 U	2 U	2 U	2 U	NA
1,2,4-Trimethylbenzene	ug/L	56,000	17	56,000	55,890	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	- -	- -	1,200	1,230	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
1,2-Dibromoethane	ug/L	- -	5.7	15,000	4,200,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
1,2-Dichlorobenzene	ug/L	- -	13	160,000	156,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
1,2-Dichloroethane	ug/L	2,500,000	360	59,000	8,520,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
1,2-Dichloropropane	ug/L	550,000	230	36,000	2,800,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
1,3,5-Trimethylbenzene	ug/L	- -	45	61,000	61,150	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/L	- -	28	41,000	111,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
1,4-Dichlorobenzene	ug/L	- -	17	74,000	73,800	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
2-Butanone	ug/L	- -	2,200	240,000,000	240,000,000	NA	7 J [7 J]	140 J	20 U	20 U	20 U	NA
2-Hexanone	ug/L	- -	- -	8,700,000	16,000,000	NA	50 U [50 U]	50 U	50 U	50 U	50 UJ	NA
2-Methylnaphthalene	ug/L	- -	19	25,000	24,600	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	ug/L	- -	- -	20,000,000	20,000,000	NA	1 U [1 U]	1 U	10 U	10 U	10 U	NA
Acetone	ug/L	15,000,000	1,700	1,000,000,000	1,000,000,000	NA	**2,000 (GSI (2013))**	**47,000 Y (GSI (2013))**	20 U	20 U	20 U	NA
Acrylonitrile	ug/L	6,400,000	2	190,000	75,000,000	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/L	68,000	200	35,000	1,750,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
Bromobenzene	ug/L	- -	- -	390,000	413,000	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/L	- -	- -	37,000	6,740,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
Bromoform	ug/L	- -	- -	3,100,000	3,100,000	NA	1 UJ [1 UJ]	1 U	1 U	1 U	1 U	NA
Bromomethane	ug/L	- -	35	9,000	14,500,000	NA	2 UJ [2 UJ]	R	2 U	2 U	2 U	NA
Carbon Disulfide	ug/L	13,000	- -	550,000	1,190,000	NA	5 UJ [5 UJ]	5 U	5 U	5 U	5 U	NA
Carbon Tetrachloride	ug/L	- -	45	2,400	793,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
Chlorobenzene	ug/L	160,000	25	470,000	472,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
Chloroethane	ug/L	110,000	1,100	5,700,000	5,740,000	NA	1 UJ [1 UJ]	1 U	1 U	1 U	1 U	NA
Chloroform	ug/L	- -	350	180,000	7,920,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
Chloromethane	ug/L	36,000	- -	45,000	6,340,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA

Table M-1

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	IGVIA (2013)	WS (2013)	RFI-02-12 03/26/03	RFI-02-12 10/05/04	RFI-02-12 02/24/05	RFI-02-12 11/01/06	RFI-02-12 10/31/07	RFI-02-12 09/11/08	RFI-02-13 12/19/02
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
Cyclohexane	ug/L	- -	- -	- -	- -	NA	1 U [1 U]	1 U	1 UJ	1 U	1 UJ	NA
Dibromochloromethane	ug/L	- -	- -	110,000	2,600,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
Dibromomethane	ug/L	- -	- -	- -	11,000,000	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/L	- -	- -	300,000	300,000	NA	1 U [1 UJ]	1 U	1 U	1 U	1 UJ	NA
Diethyl ether	ug/L	650,000	- -	61,000,000	61,000,000	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/L	43,000	18	170,000	169,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
Hexachloroethane	ug/L	- -	6.7	50,000	50,000	NA	NA	NA	NA	NA	NA	NA
Iodomethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	ug/L	29,000	28	56,000	56,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
m&p-Xylene	ug/L	- -	- -	- -	- -	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
Methyl acetate	ug/L	- -	- -	- -	- -	NA	7 J [7 J]	180	10 U	10 U	10 U	NA
Methyl tert-butyl ether	ug/L	- -	7,100	47,000,000	46,800,000	NA	5 U [5 U]	5 U	5 U	5 U	5 U	NA
Methylcyclohexane	ug/L	- -	- -	- -	- -	NA	20 U [0.2 J]	20 U	20 U	20 U	20 U	NA
Methylene Chloride	ug/L	- -	1,500	1,400,000	17,000,000	NA	5 U [5 U]	5 U	5 U	5 U	5 U	NA
Naphthalene	ug/L	- -	11	31,000	31,000	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
o-Xylene	ug/L	- -	- -	- -	- -	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
p-Isopropyltoluene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/L	140,000	80	310,000	310,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
tert-Butylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/L	- -	60	170,000	200,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
Tetrahydrofuran	ug/L	60,000	11,000	16,000,000	1,000,000,000	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/L	61,000	270	530,000	526,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
trans-1,2-Dichloroethene	ug/L	230,000	1,500	200,000	6,300,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/L	- -	200	4,900	1,100,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
Trichlorofluoromethane	ug/L	- -	- -	1,100,000	1,100,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
Vinyl Chloride	ug/L	33,000	13	13,000	2,760,000	NA	1 U [1 U]	1 U	1 U	1 U	1 U	NA
SVOC												
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	- -	- -	- -	1,200,000	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	- -	5	- -	800,000	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	- -	11	- -	4,500,000	NA	NA	NA	NA	NA	NA	NA

Table M-1

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	IGVIA (2013)	WS (2013)	RFI-02-12 03/26/03	RFI-02-12 10/05/04	RFI-02-12 02/24/05	RFI-02-12 11/01/06	RFI-02-12 10/31/07	RFI-02-12 09/11/08	RFI-02-13 12/19/02
2,4-Dimethylphenol	ug/L	- -	380	- -	7,870,000	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	- -	- -	- -	270,000	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	- -	- -	- -	6,740	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	- -	18	1,100,000	22,000,000	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	- -	19	25,000	24,600	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	- -	- -	- -	2,500,000	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	- -	0.3	- -	3,110	NA	NA	NA	NA	NA	NA	NA
3-Methylphenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	ug/L	- -	7.4	- -	3,900,000	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	- -	38	4,200	4,240	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	- -	- -	3,900	3,930	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	- -	- -	6,100,000	6,100,000	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	- -	- -	43	43.4	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	- -	7.3	- -	70,000	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	- -	- -	- -	9.4	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	- -	- -	- -	1.62	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	- -	- -	- -	1.5	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	- -	- -	- -	0.26	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	- -	- -	- -	0.8	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000	1	210,000	17,200,000	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	- -	25	- -	340	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	ug/L	- -	67	- -	2,690	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	- -	- -	- -	5,250,000,000	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	- -	10	- -	7,480	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	- -	- -	- -	1.6	NA	NA	NA	NA	NA	NA	NA

Table M-1

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	IGVIA (2013)	WS (2013)	RFI-02-12 03/26/03	RFI-02-12 10/05/04	RFI-02-12 02/24/05	RFI-02-12 11/01/06	RFI-02-12 10/31/07	RFI-02-12 09/11/08	RFI-02-13 12/19/02
Dibenzo(a,h)anthracene	ug/L	- -	- -	- -	2.49	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	- -	4	10,000	10,000	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	ug/L	- -	110	- -	1,080,000	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	ug/L	- -	- -	- -	4,190,000	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	ug/L	- -	9.7	- -	11,200	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	ug/L	- -	- -	- -	3,000	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	- -	1.6	210	206	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	- -	12	2,000	1,980	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/L	- -	0.2	3,000	6,200	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	- -	0.053	3,200	3,230	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	- -	- -	420	1,800	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	- -	6.7	50,000	50,000	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	- -	- -	- -	0.022	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	- -	1,300	- -	12,000,000	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	ug/L	- -	30	- -	28,000,000	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	- -	11	31,000	31,000	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	- -	180	550,000	2,090,000	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	ug/L	- -	- -	- -	9,890,000	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	- -	- -	- -	35,100	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	- -	- -	- -	1,850,000	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	- -	2	1,000	1,000	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	- -	450	- -	82,800,000	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	- -	- -	140	135	NA	NA	NA	NA	NA	NA	NA
PCB												
Aroclor-1016	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/L	- -	0.2	45	44.7	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved												
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA

Table M-1

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	IGVIA (2013)	WS (2013)	RFI-02-12 03/26/03	RFI-02-12 10/05/04	RFI-02-12 02/24/05	RFI-02-12 11/01/06	RFI-02-12 10/31/07	RFI-02-12 09/11/08	RFI-02-13 12/19/02
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total PCBs (Dissolved)	ug/L	- -	0.2	45	44.7	NA	NA	NA	NA	NA	NA	NA
Inorganic												
Antimony	ug/L	- -	130	- -	- -	1.2 U	NA	NA	NA	NA	NA	1.2 U
Arsenic	ug/L	- -	10	- -	- -	1 U	NA	NA	NA	NA	NA	2.5 J
Barium	ug/L	- -	1,308	- -	- -	73	NA	NA	NA	NA	NA	16 J
Beryllium	ug/L	- -	32	- -	- -	0.4 U	NA	NA	NA	NA	NA	0.4 U
Cadmium	ug/L	- -	4.8	- -	- -	0.2 U	NA	NA	NA	NA	NA	0.083 J
Chromium Total	ug/L	- -	- -	- -	- -	0.7	NA	NA	NA	NA	NA	1.2 J
Cobalt	ug/L	- -	100	- -	- -	0.3	NA	NA	NA	NA	NA	0.58 J
Copper	ug/L	- -	22	- -	- -	1.9	NA	NA	NA	NA	NA	4.4 J
Cyanide (total)	ug/L	- -	5.2	- -	- -	4.8 J	NA	NA	NA	NA	NA	5 U
Lead	ug/L	- -	47	- -	- -	0.4 U	NA	NA	NA	NA	NA	1.1 J
Manganese	ug/L	- -	4,857	- -	- -	83	NA	NA	NA	NA	NA	380 J
Mercury	ug/L	- -	0.0013	56	56	0.2 U	NA	NA	NA	NA	NA	0.2 U
Nickel	ug/L	- -	124	- -	- -	8.4	NA	NA	NA	NA	NA	5.1 J
Selenium	ug/L	- -	- -	- -	- -	1.6 U	NA	NA	NA	NA	NA	1.6 U
Silver	ug/L	- -	0.2	- -	- -	0.4 U	NA	NA	NA	NA	NA	0.4 UJ
Thallium	ug/L	- -	3.7	- -	- -	0.2 U	NA	NA	NA	NA	NA	0.52 J
Vanadium	ug/L	- -	27	- -	- -	0.27 J	NA	NA	NA	NA	NA	0.62 J
Zinc	ug/L	- -	283	- -	- -	6.6	NA	NA	NA	NA	NA	9.7 J
Inorganic-Dissolved												
Antimony (Dissolved)	ug/L	- -	130	- -	- -	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	ug/L	- -	10	- -	- -	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	ug/L	- -	1,308	- -	- -	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	ug/L	- -	32	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	ug/L	- -	4.8	- -	- -	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	ug/L	- -	100	- -	- -	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	ug/L	- -	22	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	ug/L	- -	5.2	- -	- -	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	ug/L	- -	47	- -	- -	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	ug/L	- -	4,857	- -	- -	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	ug/L	- -	124	- -	- -	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	ug/L	- -	0.2	- -	- -	NA	NA	NA	NA	NA	NA	NA

Table M-1

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	IGVIA (2013)	WS (2013)	RFI-02-12 03/26/03	RFI-02-12 10/05/04	RFI-02-12 02/24/05	RFI-02-12 11/01/06	RFI-02-12 10/31/07	RFI-02-12 09/11/08	RFI-02-13 12/19/02
Thallium (Dissolved)	ug/L	- -	3.7	- -	- -	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	ug/L	- -	27	- -	- -	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	ug/L	- -	283	- -	- -	NA	NA	NA	NA	NA	NA	NA
Field Parameters												
Conductivity Field	mS/cm	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.727	NA
ORP, Field	millivolts	- -	- -	- -	- -	NA	NA	NA	NA	NA	152.5 -	NA
pH Field	s.u.	- -	- -	- -	- -	NA	NA	NA	NA	NA	7.14	NA
Temperature, Ambient	deg f	- -	- -	- -	- -	NA	NA	NA	NA	NA	60	NA
Temperature, Field	Deg C	- -	- -	- -	- -	NA	NA	NA	NA	NA	21.61	NA
Turbidity (Field)	NTU	- -	- -	- -	- -	NA	NA	NA	NA	NA	1.93	NA
Field Parameters-Filtered												
Dissolved Oxygen, Field	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	230	NA

Table M-1

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	IGVIA (2013)	WS (2013)	RFI-02-19 04/08/05	RFI-02-20 04/05/05	RFI-02-21 04/05/05	RFI-02-22 04/05/05	RFI-02-22 10/15/10	RFI-02-22 10/25/11	RFI-02-22 11/08/12	RFI-02-24 04/05/05
VOC													
1,1,1,2-Tetrachloroethane	ug/L	- -	- -	96,000	1,100,000	NA	NA	NA	NA	1 U	NA	NA	NA
1,1,1-Trichloroethane	ug/L	- -	89	1,300,000	1,330,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	- -	78	77,000	2,970,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	- -	32	170,000	170,000	30 U	30 U	30 U	30 U	NA	30 U	30 U	30 U
1,1,2-Trichloroethane	ug/L	- -	330	110,000	4,420,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	1 U	1 J	0.6 J	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	5 U	NA	NA	NA
1,2,3-Trichloropropane	ug/L	- -	- -	18,000	1,900,000	NA	NA	NA	NA	1 U	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	1 U	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	- -	99	300,000	300,000	2 U	2 U	2 U	2 U	5 U	2 U	2 U	2 U
1,2,4-Trimethylbenzene	ug/L	56,000	17	56,000	55,890	NA	NA	NA	NA	1 U	NA	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	- -	- -	1,200	1,230	1 UJ	1 UJ	1 UJ	1 UJ	5 U	1 U	1 U	1 UJ
1,2-Dibromoethane	ug/L	- -	5.7	15,000	4,200,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	ug/L	- -	13	160,000	156,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/L	2,500,000	360	59,000	8,520,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/L	550,000	230	36,000	2,800,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/L	- -	45	61,000	61,150	NA	NA	NA	NA	1 U	NA	NA	NA
1,3-Dichlorobenzene	ug/L	- -	28	41,000	111,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	ug/L	- -	17	74,000	73,800	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	ug/L	- -	2,200	240,000,000	240,000,000	30 U	20 J	30 U	30 U	30 U	20 U	20 U	30 U
2-Hexanone	ug/L	- -	- -	8,700,000	16,000,000	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Methylnaphthalene	ug/L	- -	19	25,000	24,600	NA	NA	NA	NA	5 U	NA	NA	NA
4-Methyl-2-pentanone	ug/L	- -	- -	20,000,000	20,000,000	1 U	1 U	1 U	1 U	50 U	10 U	10 U	1 U
Acetone	ug/L	15,000,000	1,700	1,000,000,000	1,000,000,000	6 J	**2,300 (GSI (2013))**	8 J	10 J	50 U	20 U	20 U	30 UJ
Acrylonitrile	ug/L	6,400,000	2	190,000	75,000,000	NA	NA	NA	NA	2 U	NA	NA	NA
Benzene	ug/L	68,000	200	35,000	1,750,000	1 U	1 U	1 U	0.2 J	1 U	1 U	1 U	1 U
Bromobenzene	ug/L	- -	- -	390,000	413,000	NA	NA	NA	NA	1 U	NA	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	1 U	NA	NA	NA
Bromodichloromethane	ug/L	- -	- -	37,000	6,740,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/L	- -	- -	3,100,000	3,100,000	1 UJ	1 UJ	1 UJ	1 UJ	1 U	1 U	1 U	1 UJ
Bromomethane	ug/L	- -	35	9,000	14,500,000	R	R	R	R	5 U	2 U	2 U	R
Carbon Disulfide	ug/L	13,000	- -	550,000	1,190,000	5 U	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U
Carbon Tetrachloride	ug/L	- -	45	2,400	793,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/L	160,000	25	470,000	472,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/L	110,000	1,100	5,700,000	5,740,000	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
Chloroform	ug/L	- -	350	180,000	7,920,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	ug/L	36,000	- -	45,000	6,340,000	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	1 U	1 U	1 U	0.3 J	1 U	1 U	1 U	0.8 J

Table M-1

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	IGVIA (2013)	WS (2013)	RFI-02-19 04/08/05	RFI-02-20 04/05/05	RFI-02-21 04/05/05	RFI-02-22 04/05/05	RFI-02-22 10/15/10	RFI-02-22 10/25/11	RFI-02-22 11/08/12	RFI-02-24 04/05/05
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	ug/L	- -	- -	- -	- -	1 UJ	1 UJ	1 UJ	1 UJ	NA	1 U	1 U	1 UJ
Dibromochloromethane	ug/L	- -	- -	110,000	2,600,000	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
Dibromomethane	ug/L	- -	- -	- -	11,000,000	NA	NA	NA	NA	5 U	NA	NA	NA
Dichlorodifluoromethane	ug/L	- -	- -	300,000	300,000	1 U	1 U	1 UJ	1 UJ	5 U	1 U	1 U	1 U
Diethyl ether	ug/L	650,000	- -	61,000,000	61,000,000	NA	NA	NA	NA	10 U	NA	NA	NA
Ethylbenzene	ug/L	43,000	18	170,000	169,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachloroethane	ug/L	- -	6.7	50,000	50,000	NA	NA	NA	NA	5 U	NA	NA	NA
Iodomethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	1 U	NA	NA	NA
Isopropylbenzene	ug/L	29,000	28	56,000	56,000	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
m&p-Xylene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	2 U	2 U	2 U	1 U
Methyl acetate	ug/L	- -	- -	- -	- -	10 U	10 J	10 U	10 U	NA	10 U	10 U	10 U
Methyl tert-butyl ether	ug/L	- -	7,100	47,000,000	46,800,000	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 U	5 UJ
Methylcyclohexane	ug/L	- -	- -	- -	- -	20 U	20 U	20 UJ	20 UJ	NA	20 U	20 U	20 U
Methylene Chloride	ug/L	- -	1,500	1,400,000	17,000,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	ug/L	- -	11	31,000	31,000	NA	NA	NA	NA	5 U	5 U	5 U	NA
n-Butylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	1 U	NA	NA	NA
n-Propylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	1 U	1 U	1 U	NA
o-Xylene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
p-Isopropyltoluene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	5 U	NA	NA	NA
sec-Butylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	1 U	NA	NA	NA
Styrene	ug/L	140,000	80	310,000	310,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	1 U	NA	NA	NA
Tetrachloroethene	ug/L	- -	60	170,000	200,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	ug/L	60,000	11,000	16,000,000	1,000,000,000	NA	NA	NA	NA	90 U	NA	NA	NA
Toluene	ug/L	61,000	270	530,000	526,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/L	230,000	1,500	200,000	6,300,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	1 U	NA	NA	NA
Trichloroethene	ug/L	- -	200	4,900	1,100,000	1 U	1 U	1 U	0.2 J	1 U	1 U	1 U	1 U
Trichlorofluoromethane	ug/L	- -	- -	1,100,000	1,100,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	ug/L	33,000	13	13,000	2,760,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SVOC													
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	- -	- -	- -	1,200,000	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	- -	5	- -	800,000	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	- -	11	- -	4,500,000	NA	NA	NA	NA	NA	NA	NA	NA

Table M-1

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	IGVIA (2013)	WS (2013)	RFI-02-19 04/08/05	RFI-02-20 04/05/05	RFI-02-21 04/05/05	RFI-02-22 04/05/05	RFI-02-22 10/15/10	RFI-02-22 10/25/11	RFI-02-22 11/08/12	RFI-02-24 04/05/05
2,4-Dimethylphenol	ug/L	- -	380	- -	7,870,000	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	- -	- -	- -	270,000	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	- -	- -	- -	6,740	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	- -	18	1,100,000	22,000,000	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	- -	19	25,000	24,600	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	- -	- -	- -	2,500,000	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	- -	0.3	- -	3,110	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	ug/L	- -	7.4	- -	3,900,000	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	- -	38	4,200	4,240	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	- -	- -	3,900	3,930	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	- -	- -	6,100,000	6,100,000	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	- -	- -	43	43.4	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	- -	7.3	- -	70,000	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	- -	- -	- -	9.4	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	- -	- -	- -	1.62	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	- -	- -	- -	1.5	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	- -	- -	- -	0.26	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	- -	- -	- -	0.8	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000	1	210,000	17,200,000	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	- -	25	- -	340	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	ug/L	- -	67	- -	2,690	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	- -	- -	- -	5,250,000,000	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	- -	10	- -	7,480	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	- -	- -	- -	1.6	NA	NA	NA	NA	NA	NA	NA	NA

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Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	IGVIA (2013)	WS (2013)	RFI-02-19 04/08/05	RFI-02-20 04/05/05	RFI-02-21 04/05/05	RFI-02-22 04/05/05	RFI-02-22 10/15/10	RFI-02-22 10/25/11	RFI-02-22 11/08/12	RFI-02-24 04/05/05
Dibenzo(a,h)anthracene	ug/L	- -	- -	- -	2.49	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	- -	4	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	ug/L	- -	110	- -	1,080,000	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	ug/L	- -	- -	- -	4,190,000	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	ug/L	- -	9.7	- -	11,200	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	ug/L	- -	- -	- -	3,000	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	- -	1.6	210	206	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	- -	12	2,000	1,980	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/L	- -	0.2	3,000	6,200	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	- -	0.053	3,200	3,230	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	- -	- -	420	1,800	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	- -	6.7	50,000	50,000	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	- -	- -	- -	0.022	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	- -	1,300	- -	12,000,000	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	ug/L	- -	30	- -	28,000,000	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	- -	11	31,000	31,000	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	- -	180	550,000	2,090,000	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	ug/L	- -	- -	- -	9,890,000	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	- -	- -	- -	35,100	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	- -	- -	- -	1,850,000	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	- -	2	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	- -	450	- -	82,800,000	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	- -	- -	140	135	NA	NA	NA	NA	NA	NA	NA	NA
PCB													
Aroclor-1016	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/L	- -	0.2	45	44.7	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved													
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA

Table M-1

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	IGVIA (2013)	WS (2013)	RFI-02-19 04/08/05	RFI-02-20 04/05/05	RFI-02-21 04/05/05	RFI-02-22 04/05/05	RFI-02-22 10/15/10	RFI-02-22 10/25/11	RFI-02-22 11/08/12	RFI-02-24 04/05/05
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (Dissolved)	ug/L	- -	0.2	45	44.7	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic													
Antimony	ug/L	- -	130	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	ug/L	- -	10	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/L	- -	1,308	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/L	- -	32	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/L	- -	4.8	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/L	- -	100	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/L	- -	22	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	ug/L	- -	5.2	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/L	- -	47	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/L	- -	4,857	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/L	- -	0.0013	56	56	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/L	- -	124	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/L	- -	0.2	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	ug/L	- -	3.7	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/L	- -	27	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/L	- -	283	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved													
Antimony (Dissolved)	ug/L	- -	130	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	ug/L	- -	10	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	ug/L	- -	1,308	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	ug/L	- -	32	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	ug/L	- -	4.8	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	ug/L	- -	100	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	ug/L	- -	22	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	ug/L	- -	5.2	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	ug/L	- -	47	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	ug/L	- -	4,857	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	ug/L	- -	124	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	ug/L	- -	0.2	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA

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Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	IGVIA (2013)	WS (2013)	RFI-02-19 04/08/05	RFI-02-20 04/05/05	RFI-02-21 04/05/05	RFI-02-22 04/05/05	RFI-02-22 10/15/10	RFI-02-22 10/25/11	RFI-02-22 11/08/12	RFI-02-24 04/05/05
Thallium (Dissolved)	ug/L	- -	3.7	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	ug/L	- -	27	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	ug/L	- -	283	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Field Parameters													
Conductivity Field	mS/cm	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
pH Field	s.u.	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA
Field Parameters-Filtered													
Dissolved Oxygen, Field	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA

Table M-1

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	IGVIA (2013)	WS (2013)	RFI-02-24 12/08/05	RFI-02-24 06/27/07	RFI-02-24 11/01/07	RFI-02-24 03/18/08	RFI-02-24 06/18/08	RFI-02-24 09/12/08	RFI-02-24 12/04/08
VOC												
1,1,1,2-Tetrachloroethane	ug/L	- -	- -	96,000	1,100,000	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/L	- -	89	1,300,000	1,330,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	- -	78	77,000	2,970,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	- -	32	170,000	170,000	30 U [30 U]	30 U	30 U	30 U	30 U	30 U	30 U
1,1,2-Trichloroethane	ug/L	- -	330	110,000	4,420,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	ug/L	- -	- -	18,000	1,900,000	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	- -	99	300,000	300,000	2 U [2 U]	2 U	2 U	2 UJ	2 U	2 U	2 U
1,2,4-Trimethylbenzene	ug/L	56,000	17	56,000	55,890	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	- -	- -	1,200	1,230	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	ug/L	- -	5.7	15,000	4,200,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	ug/L	- -	13	160,000	156,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/L	2,500,000	360	59,000	8,520,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/L	550,000	230	36,000	2,800,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/L	- -	45	61,000	61,150	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/L	- -	28	41,000	111,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	ug/L	- -	17	74,000	73,800	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	ug/L	- -	2,200	240,000,000	240,000,000	30 U [30 U]	20 U	20 U	20 U	20 U	20 U	20 U
2-Hexanone	ug/L	- -	- -	8,700,000	16,000,000	50 U [50 U]	50 U	50 U	50 U	50 U	50 UJ	50 UJ
2-Methylnaphthalene	ug/L	- -	19	25,000	24,600	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	ug/L	- -	- -	20,000,000	20,000,000	1 U [1 U]	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	15,000,000	1,700	1,000,000,000	1,000,000,000	30 U [30 U]	20 U	20 U	20 U	2 J	20 U	20 UJ
Acrylonitrile	ug/L	6,400,000	2	190,000	75,000,000	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/L	68,000	200	35,000	1,750,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
Bromobenzene	ug/L	- -	- -	390,000	413,000	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/L	- -	- -	37,000	6,740,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/L	- -	- -	3,100,000	3,100,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/L	- -	35	9,000	14,500,000	2 U [2 U]	2 U	2 U	2 U	2 UJ	2 U	2 U
Carbon Disulfide	ug/L	13,000	- -	550,000	1,190,000	5 U [5 U]	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	ug/L	- -	45	2,400	793,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/L	160,000	25	470,000	472,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/L	110,000	1,100	5,700,000	5,740,000	1 U [1 U]	1 U	1 U	1 U	1 UJ	1 U	1 U
Chloroform	ug/L	- -	350	180,000	7,920,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	ug/L	36,000	- -	45,000	6,340,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	0.8 J [0.8 J]	1	0.3 J	0.4 J	2	3	0.3 J

Table M-1

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	IGVIA (2013)	WS (2013)	RFI-02-24 12/08/05	RFI-02-24 06/27/07	RFI-02-24 11/01/07	RFI-02-24 03/18/08	RFI-02-24 06/18/08	RFI-02-24 09/12/08	RFI-02-24 12/04/08
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	ug/L	- -	- -	- -	- -	1 U [1 U]	1 U	1 U	1 U	1 U	1 UJ	1 U
Dibromochloromethane	ug/L	- -	- -	110,000	2,600,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
Dibromomethane	ug/L	- -	- -	- -	11,000,000	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/L	- -	- -	300,000	300,000	1 U [1 U]	1 UJ	1 U	1 U	1 U	1 U	1 U
Diethyl ether	ug/L	650,000	- -	61,000,000	61,000,000	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/L	43,000	18	170,000	169,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
Hexachloroethane	ug/L	- -	6.7	50,000	50,000	NA	NA	NA	NA	NA	NA	NA
Iodomethane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	ug/L	29,000	28	56,000	56,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
m&p-Xylene	ug/L	- -	- -	- -	- -	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
Methyl acetate	ug/L	- -	- -	- -	- -	10 U [10 U]	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	ug/L	- -	7,100	47,000,000	46,800,000	5 U [5 U]	5 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	ug/L	- -	- -	- -	- -	20 U [20 U]	20 U	20 U	20 UJ	20 U	20 U	20 U
Methylene Chloride	ug/L	- -	1,500	1,400,000	17,000,000	5 U [5 U]	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	ug/L	- -	11	31,000	31,000	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
o-Xylene	ug/L	- -	- -	- -	- -	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
p-Isopropyltoluene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/L	140,000	80	310,000	310,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/L	- -	60	170,000	200,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	ug/L	60,000	11,000	16,000,000	1,000,000,000	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/L	61,000	270	530,000	526,000	1 U [1 U]	1 U	1 U	1 U	0.1 J	1 U	1 U
trans-1,2-Dichloroethene	ug/L	230,000	1,500	200,000	6,300,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/L	- -	200	4,900	1,100,000	1 U [1 U]	1 U	1 U	1 U	0.2 J	0.2 J	1 U
Trichlorofluoromethane	ug/L	- -	- -	1,100,000	1,100,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	ug/L	33,000	13	13,000	2,760,000	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U
SVOC												
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	- -	- -	- -	1,200,000	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	- -	5	- -	800,000	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	- -	11	- -	4,500,000	NA	NA	NA	NA	NA	NA	NA

Table M-1

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	IGVIA (2013)	WS (2013)	RFI-02-24 12/08/05	RFI-02-24 06/27/07	RFI-02-24 11/01/07	RFI-02-24 03/18/08	RFI-02-24 06/18/08	RFI-02-24 09/12/08	RFI-02-24 12/04/08
2,4-Dimethylphenol	ug/L	- -	380	- -	7,870,000	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	- -	- -	- -	270,000	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	- -	- -	- -	6,740	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	- -	18	1,100,000	22,000,000	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	- -	19	25,000	24,600	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	- -	- -	- -	2,500,000	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	- -	0.3	- -	3,110	NA	NA	NA	NA	NA	NA	NA
3-Methylphenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	ug/L	- -	7.4	- -	3,900,000	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	- -	38	4,200	4,240	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	- -	- -	3,900	3,930	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	- -	- -	6,100,000	6,100,000	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	- -	- -	43	43.4	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	- -	7.3	- -	70,000	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	- -	- -	- -	9.4	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	- -	- -	- -	1.62	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	- -	- -	- -	1.5	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	- -	- -	- -	0.26	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	- -	- -	- -	0.8	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000	1	210,000	17,200,000	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	- -	25	- -	340	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	ug/L	- -	67	- -	2,690	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	- -	- -	- -	5,250,000,000	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	- -	10	- -	7,480	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	- -	- -	- -	1.6	NA	NA	NA	NA	NA	NA	NA

Table M-1

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	IGVIA (2013)	WS (2013)	RFI-02-24 12/08/05	RFI-02-24 06/27/07	RFI-02-24 11/01/07	RFI-02-24 03/18/08	RFI-02-24 06/18/08	RFI-02-24 09/12/08	RFI-02-24 12/04/08
Dibenzo(a,h)anthracene	ug/L	- -	- -	- -	2.49	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	- -	4	10,000	10,000	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	ug/L	- -	110	- -	1,080,000	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	ug/L	- -	- -	- -	4,190,000	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	ug/L	- -	9.7	- -	11,200	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	ug/L	- -	- -	- -	3,000	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	- -	1.6	210	206	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	- -	12	2,000	1,980	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/L	- -	0.2	3,000	6,200	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	- -	0.053	3,200	3,230	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	- -	- -	420	1,800	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	- -	6.7	50,000	50,000	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	- -	- -	- -	0.022	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	- -	1,300	- -	12,000,000	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	ug/L	- -	30	- -	28,000,000	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	- -	11	31,000	31,000	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	- -	180	550,000	2,090,000	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	ug/L	- -	- -	- -	9,890,000	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	- -	- -	- -	35,100	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	- -	- -	- -	1,850,000	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	- -	2	1,000	1,000	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	- -	450	- -	82,800,000	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	- -	- -	140	135	NA	NA	NA	NA	NA	NA	NA
PCB												
Aroclor-1016	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/L	- -	0.2	45	44.7	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved												
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA

Table M-1

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RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	IGVIA (2013)	WS (2013)	RFI-02-24 12/08/05	RFI-02-24 06/27/07	RFI-02-24 11/01/07	RFI-02-24 03/18/08	RFI-02-24 06/18/08	RFI-02-24 09/12/08	RFI-02-24 12/04/08
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total PCBs (Dissolved)	ug/L	- -	0.2	45	44.7	NA	NA	NA	NA	NA	NA	NA
Inorganic												
Antimony	ug/L	- -	130	- -	- -	NA	NA	NA	NA	NA	NA	NA
Arsenic	ug/L	- -	10	- -	- -	NA	NA	NA	NA	NA	NA	NA
Barium	ug/L	- -	1,308	- -	- -	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/L	- -	32	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/L	- -	4.8	- -	- -	NA	NA	NA	NA	NA	NA	NA
Chromium Total	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/L	- -	100	- -	- -	NA	NA	NA	NA	NA	NA	NA
Copper	ug/L	- -	22	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	ug/L	- -	5.2	- -	- -	NA	NA	NA	NA	NA	NA	NA
Lead	ug/L	- -	47	- -	- -	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/L	- -	4,857	- -	- -	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/L	- -	0.0013	56	56	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/L	- -	124	- -	- -	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Silver	ug/L	- -	0.2	- -	- -	NA	NA	NA	NA	NA	NA	NA
Thallium	ug/L	- -	3.7	- -	- -	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/L	- -	27	- -	- -	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/L	- -	283	- -	- -	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved												
Antimony (Dissolved)	ug/L	- -	130	- -	- -	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	ug/L	- -	10	- -	- -	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	ug/L	- -	1,308	- -	- -	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	ug/L	- -	32	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	ug/L	- -	4.8	- -	- -	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	ug/L	- -	100	- -	- -	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	ug/L	- -	22	- -	- -	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	ug/L	- -	5.2	- -	- -	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	ug/L	- -	47	- -	- -	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	ug/L	- -	4,857	- -	- -	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	ug/L	- -	124	- -	- -	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	ug/L	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	ug/L	- -	0.2	- -	- -	NA	NA	NA	NA	NA	NA	NA

Table M-1

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	IGVIA (2013)	WS (2013)	RFI-02-24 12/08/05	RFI-02-24 06/27/07	RFI-02-24 11/01/07	RFI-02-24 03/18/08	RFI-02-24 06/18/08	RFI-02-24 09/12/08	RFI-02-24 12/04/08
Thallium (Dissolved)	ug/L	- -	3.7	- -	- -	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	ug/L	- -	27	- -	- -	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	ug/L	- -	283	- -	- -	NA	NA	NA	NA	NA	NA	NA
Field Parameters												
Conductivity Field	mS/cm	- -	- -	- -	- -	NA	NA	NA	0.265	0.5	0.4	0.263
ORP, Field	millivolts	- -	- -	- -	- -	NA	NA	NA	15.9 -	66.5	6.4 -	85.4 -
pH Field	s.u.	- -	- -	- -	- -	NA	NA	NA	7.47	NA	7.12	7.35
Temperature, Ambient	deg f	- -	- -	- -	- -	NA	NA	NA	30	55	65	25
Temperature, Field	Deg C	- -	- -	- -	- -	NA	NA	NA	6.39	17.18	20.92	9.26
Turbidity (Field)	NTU	- -	- -	- -	- -	NA	NA	NA	0.22	3.67	5.59	2.17
Field Parameters-Filtered												
Dissolved Oxygen, Field	ug/L	- -	- -	- -	- -	NA	NA	NA	320	450	200	230

Table M-2

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT (2013)	GSIP (2013)	IDC (2013)	IPSIC (2013)	ISVIA (2013)	IVSICI (2013)	SDBL (2013)	RFI-02-04 1.1 - 2 05/10/01	RFI-02-04 6 - 8 05/10/01	RFI-02-04 8 - 10 05/10/01
VOC											
1,1,1,2-Tetrachloroethane	mg/kg	440	- -	2,200	530,000	33	120	- -	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.038 U	0.039 U [0.036 U]	0.04 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.075 U	0.078 U [0.071 U]	0.08 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	0.16 U	0.17 U [0.15 U]	0.17 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.038 U	0.039 U [0.036 U]	0.04 U
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.038 U	0.039 U [0.036 U]	0.04 U
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.038 U	0.039 U [0.036 U]	0.04 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	- -	4,200	8,800	7.5	11	- -	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.16 U	0.17 U [0.15 U]	0.17 U
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000	36,000,000	8,000	25,000	- -	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.16 U	0.17 U [0.15 U]	0.17 U
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.16 U	0.17 U [0.15 U]	0.17 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.075 U	0.078 U [0.071 U]	0.08 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.038 U	0.039 U [0.0087 J]	0.04 U
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.038 U	0.039 U [0.036 U]	0.04 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000	36,000,000	4,800	19,000	- -	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.075 U	0.078 U [0.071 U]	0.08 U
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.075 U	0.078 U [0.071 U]	0.08 U
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.27 U	0.28 U [0.26 U]	0.29 U
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	0.27 U	0.28 U [0.26 U]	0.29 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.27 U	0.28 U [0.26 U]	0.29 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	0.27 U	0.28 U [0.21 J]	0.29 U
Acrylonitrile	mg/kg	8,300	0.1	74	58,000	35	17	- -	NA	NA	NA
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.038 U	0.039 U [0.036 U]	0.04 U
Bromobenzene	mg/kg	760	- -	1,700	240,000	580	540	- -	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.075 U	0.078 U [0.071 U]	0.08 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.075 U	0.078 U [0.071 U]	0.08 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.16 U	0.17 U [0.15 U]	0.17 U
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.16 U	0.17 U [0.15 U]	0.17 U
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.038 U	0.039 U [0.036 U]	0.04 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.038 U	0.039 U [0.036 U]	0.04 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.16 U	0.17 U [0.15 U]	0.17 U
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.038 U	0.039 U [0.036 U]	0.04 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.16 U	0.17 U [0.02 J]	0.17 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.038 U	0.039 U [0.036 U]	0.04 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.039 U [0.036 U]	0.04 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.16 U	0.17 U [0.15 UJ]	0.17 U
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.075 U	0.078 U [0.071 U]	0.08 U
Dibromomethane	mg/kg	2,000	- -	8,000	- -	- -	- -	- -	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.075 U	0.078 U [0.071 U]	0.08 U
Diethyl ether	mg/kg	7,400	- -	360,000	350,000,000	52,000	100,000	- -	NA	NA	NA

Table M-2

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT (2013)	GSIP (2013)	IDC (2013)	IPSIC (2013)	ISVIA (2013)	IVSICI (2013)	SDBL (2013)	RFI-02-04 1.1 - 2 05/10/01	RFI-02-04 6 - 8 05/10/01	RFI-02-04 8 - 10 05/10/01
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.038 U	0.039 U [0.019 J]	0.04 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.16 U	0.17 U [0.15 U]	0.17 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.043 J	0.049 J [0.079]	0.08 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.16 U	0.12 J [0.52]	0.17 U
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.27 U	0.28 U [0.26 U]	0.29 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.16 U	0.17 U [0.01 J]	0.17 U
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.16 U	0.17 U [0.088 J]	0.17 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	- -	8,000	880,000	- -	- -	- -	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	- -	8,000	590,000	- -	- -	- -	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.039 U [0.023 J]	0.04 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	- -	8,000	180,000	- -	- -	- -	NA	NA	NA
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.038 U	0.039 U [0.036 U]	0.04 U
tert-Butylbenzene	mg/kg	10,000	- -	8,000	290,000	- -	- -	- -	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.038 U	0.039 U [0.036 U]	0.04 U
Tetrahydrofuran	mg/kg	120,000	220	9,500	170,000,000	2,400	15,000	- -	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.038 U	0.039 U [0.036 U]	0.04 U
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.038 U	0.039 U [0.036 U]	0.04 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.039 U [0.036 U]	0.04 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.038 U	0.039 U [0.036 U]	0.04 U
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.075 U	0.078 U [0.071 U]	0.08 U
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.038 U	0.039 U [0.036 U]	0.04 U
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.19 U	0.2 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.19 U	0.2 U
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.19 U	0.19 U	0.2 U
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.19 U	0.19 U	0.2 U
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.19 U	0.19 U	0.2 U
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.19 U	0.19 U	0.2 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.73 U	0.75 U	0.78 U
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.73 U	0.75 U	0.78 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.19 U	0.2 U
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.19 U	0.19 U	0.2 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.19 U	0.19 U	0.2 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.19 U	0.19 U	0.2 U

Table M-2

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT (2013)	GSIP (2013)	IDC (2013)	IPSIC (2013)	ISVIA (2013)	IVSICI (2013)	SDBL (2013)	RFI-02-04 1.1 - 2 05/10/01	RFI-02-04 6 - 8 05/10/01	RFI-02-04 8 - 10 05/10/01
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.19 U	0.2 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.73 U	0.75 U	0.78 U
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.19 U	0.19 U	0.2 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.37 U	0.38 U	0.4 U
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	0.73 U	0.75 U	0.78 U
3-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.73 U	0.75 U	0.78 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	0.73 U	0.75 U	0.78 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.19 U	0.2 U
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.19 U	0.19 U	0.2 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.73 UJ	0.75 U	0.78 UJ
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.73 U	0.75 U	0.78 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.73 U	0.75 U	0.78 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.73 U	0.75 U	0.78 U
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.19 U	0.8	0.2 U
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.19 U	0.11 J	0.2 U
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	0.19 U	0.19 U	0.2 U
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.19 U	1.4	0.2 U
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	0.19 U	0.19 U	0.2 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.19 U	0.2 UJ
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.0405 J	4.4	0.0551 J
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	0.0471 J	5.14 JD	0.2 U
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.0478 J	7.5 EJ	0.071 J
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	0.19 U	2 J	0.2 U
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	0.0401 J	3.6 EJ	0.0605 J
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.19 U	0.2 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.036 U	0.037 U	0.038 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.19 U	0.19 U	0.2 U
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	0.19 U	0.19 U	0.2 U
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	0.19 U	0.19 UJ	0.2 U
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	0.19 U	1.1	0.2 U
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	0.0653 J	5.21 D	0.0675 J
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	0.19 U	0.66 J	0.2 U
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.19 U	0.3	0.2 U
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.19 U	0.057 J	0.0578 J
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.19 U	0.19 U	0.2 U
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.19 U	0.19 U	0.2 U
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.19 U	0.19 UJ	0.2 U
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	0.0762 J	**13.7 D (GSIP (2013))**	0.148 J
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.19 U	0.62	0.2 U
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.19 U	0.19 U	0.2 U
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.19 U	0.19 U	0.2 U
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.19 U	0.19 U	0.2 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.19 U	0.19 U	0.2 U

Table M-2

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT (2013)	GSIP (2013)	IDC (2013)	IPSIC (2013)	ISVIA (2013)	IVSICI (2013)	SDBL (2013)	RFI-02-04 1.1 - 2 05/10/01	RFI-02-04 6 - 8 05/10/01	RFI-02-04 8 - 10 05/10/01
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	2.1 J	0.2 U
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.19 UJ	0.19 U	0.2 U
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.19 U	0.19 U	0.2 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.19 U	0.15 J	0.2 U
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.073 U	0.075 U	0.078 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.19 U	0.19 U	0.2 U
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.19 U	0.19 U	0.2 U
Pentachlorophenol	mg/kg	- -	0.056	320	130,000	- -	- -	- -	0.73 U	0.75 U	0.78 U
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	0.097 J	**7.38 D (GSIP (2013))**	0.0873 J
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.19 U	0.19 U	0.2 U
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	0.0708 J	11.1 JD	0.13 J
Pyridine	mg/kg	37	- -	730	100,000	2	9.8	- -	NA	NA	NA
Volatile Organics											
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	NA	NA	NA
2-Ethanoxyethanol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
2-Nitropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	NA	NA	NA
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	NA	NA	NA
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	NA	NA	NA
Cyclohexanone	mg/kg	220,000	- -	1,000,000	29,000,000	32	1,300	- -	NA	NA	NA
Diethyl ether	mg/kg	7,400	- -	360,000	350,000,000	52,000	100,000	- -	NA	NA	NA
Ethyl acetate	mg/kg	7,500	- -	660,000	94,000,000	70,000	59,000	- -	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	NA	NA	NA
Isobutanol	mg/kg	8,900	- -	230,000	44,000,000	430,000	95,000	- -	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	NA	NA	NA
n-Butanol	mg/kg	8,700	200	95,000	10,000,000	- -	- -	- -	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	NA	NA	NA
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	NA	NA	NA
PCB											
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.039 U	0.041 U
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.039 U	0.041 U
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.039 U	0.041 U
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.039 U	0.041 U
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.039 U	0.041 U

Table M-2

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT (2013)	GSIP (2013)	IDC (2013)	IPSIC (2013)	ISVIA (2013)	IVSICI (2013)	SDBL (2013)	RFI-02-04 1.1 - 2 05/10/01	RFI-02-04 6 - 8 05/10/01	RFI-02-04 8 - 10 05/10/01
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.039 U	0.041 U
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.039 U	0.041 U
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.038 U	0.039 U	0.041 U
TPH											
Methanol	mg/kg	3,100	12,000	360,000	96,000,000	67,000	37,000	- -	NA	NA	NA
Inorganic											
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	0.41 U	0.15 J	0.44 U
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	3.1 J	5.6 J (GSIP (2013))	**8.4 J (GSIP (2013),SDBL (2013))**
Barium	mg/kg	- -	26.156	130,000	150,000	- -	- -	75	24 J	48 J (GSIP (2013))	53 J (GSIP (2013))
Beryllium	mg/kg	- -	0.646	1,600	590	- -	- -	- -	0.18 J	0.19 J	0.47 J
Cadmium	mg/kg	- -	0.096	2,100	2,200	- -	- -	1.2	0.05 J	0.3 J (GSIP (2013))	0.16 J (GSIP (2013))
Chromium III (Trivalent)	mg/kg	- -	3.445	1,000,000	150,000	- -	- -	18	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	- -	- -	19 J	11 J	14 J
Chromium VI (Hexavalent)	mg/kg	- -	3.3	9,200	240	- -	- -	- -	NA	NA	NA
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	1.7 J	3.3 J (GSIP (2013))	**7.3 J (GSIP (2013),SDBL (2013))**
Copper	mg/kg	- -	0.432	73,000	59,000	- -	- -	32	20 J (GSIP (2013))	**41 J (GSIP (2013),SDBL (2013))**	16 J (GSIP (2013))
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	0.057 J	0.27 (GSIP (2013))	0.15 J (GSIP (2013))
Lead	mg/kg	- -	0.931	900	44,000	- -	- -	21	6.7 (GSIP (2013))	**42 (GSIP (2013),SDBL (2013))**	13 (GSIP (2013))
Manganese	mg/kg	- -	97.133	90,000	1,500	- -	- -	440	200 (GSIP (2013))	260 (GSIP (2013))	370 (GSIP (2013))
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	0.077 U	0.0907 (GSIP (2013))	0.0207 J
Nickel	mg/kg	- -	2.485	150,000	16,000	- -	- -	20	12 J (GSIP (2013))	11 J (GSIP (2013))	18 J (GSIP (2013))
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	1.8 U	**0.49 J (GSIP (2013),SDBL (2013))**	**0.67 J (GSIP (2013),SDBL (2013))**
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	0.09 J	0.12 J (GSIP (2013))	0.17 J (GSIP (2013))
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.26 U	0.26 U	0.28 U
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	7.6 J	13 J	25 J
Zinc	mg/kg	- -	5.653	630,000	- -	- -	- -	47	15 J (GSIP (2013))	**66 J (GSIP (2013),SDBL (2013))**	**50 J (GSIP (2013),SDBL (2013))**
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	913,000	892,000	858,000

Table M-2

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT (2013)	GSIP (2013)	IDC (2013)	IPSIC (2013)	ISVIA (2013)	IVSICI (2013)	SDBL (2013)	RFI-02-14 2 - 4 03/08/05	RFI-02-14 8 - 10 03/08/05	RFI-02-19 1.7 - 4 03/22/05
VOC											
1,1,1,2-Tetrachloroethane	mg/kg	440	- -	2,200	530,000	33	120	- -	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.05 U	0.06 U	0.05 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.05 U	0.06 U	0.05 UJ
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	0.1 U	0.1 U	0.1 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.05 U	0.06 U	0.05 U
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.05 U	0.06 U	0.05 U
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.05 U	0.06 U	0.05 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	- -	4,200	8,800	7.5	11	- -	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.1 UJ	0.1 U	0.1 UJ
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000	36,000,000	8,000	25,000	- -	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	R	R	0.05 UJ
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.05 U	0.06 U	0.05 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.05 U	0.06 U	0.05 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.05 U	0.06 U	0.05 U
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.05 U	0.06 U	0.05 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000	36,000,000	4,800	19,000	- -	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.05 U	0.06 U	0.05 UJ
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.05 U	0.06 U	0.05 U
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.8 U	0.9 U	0.8 UJ
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	3 UJ	3 U	3 UJ
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	- -	- -	- -	- -	- -	- -	- -	3 U	3 U	3 UJ
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	0.8 UJ	0.9 U	0.8 UJ
Acrylonitrile	mg/kg	8,300	0.1	74	58,000	35	17	- -	NA	NA	NA
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.05 U	0.06 U	0.05 U
Bromobenzene	mg/kg	760	- -	1,700	240,000	580	540	- -	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.05 U	0.06 U	0.05 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.05 UJ	0.06 UJ	0.05 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	R	R	R
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.3 U	0.3 U	0.3 U
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.05 U	0.06 U	0.05 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.05 U	0.06 U	0.05 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.3 U	0.3 U	0.3 U
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.05 U	0.06 U	0.05 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.3 U	0.3 U	0.3 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.05 U	0.06 U	0.05 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.05 U	0.06 U	0.05 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.05 UJ	0.06 UJ	0.05 UJ
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.05 UJ	0.06 U	0.05 UJ
Dibromomethane	mg/kg	2,000	- -	8,000	- -	- -	- -	- -	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.05 UJ	0.06 U	0.05 U
Diethyl ether	mg/kg	7,400	- -	360,000	350,000,000	52,000	100,000	- -	NA	NA	NA

Table M-2

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT (2013)	GSIP (2013)	IDC (2013)	IPSIC (2013)	ISVIA (2013)	IVSICI (2013)	SDBL (2013)	RFI-02-14 2 - 4 03/08/05	RFI-02-14 8 - 10 03/08/05	RFI-02-19 1.7 - 4 03/22/05
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.05 U	0.06 U	0.05 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.05 U	0.06 U	0.05 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.02 J	0.06 U	0.05 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	3 U	0.3 J	0.2 J
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.3 U	0.3 U	0.3 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.04 J	0.01 J	0.04 J
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.3 U	0.3 U	0.3 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	- -	8,000	880,000	- -	- -	- -	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	- -	8,000	590,000	- -	- -	- -	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.05 U	0.06 U	0.05 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	- -	8,000	180,000	- -	- -	- -	NA	NA	NA
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.05 U	0.06 U	0.05 U
tert-Butylbenzene	mg/kg	10,000	- -	8,000	290,000	- -	- -	- -	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.05 U	0.06 U	0.05 U
Tetrahydrofuran	mg/kg	120,000	220	9,500	170,000,000	2,400	15,000	- -	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.02 J	0.06 U	0.05 U
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.05 U	0.06 U	0.05 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.05 UJ	0.06 U	0.05 UJ
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.05 U	0.06 U	0.05 U
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.1 U	0.1 U	0.1 U
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.1 U	0.1 U	0.1 U
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.03 J	0.09 J	0.3 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.3 U	R	0.3 U
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.3 U	R	0.3 U
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.3 U	R	0.3 U
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.3 U	R	0.3 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 UJ	R	0.7 UJ
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.3 U	R	0.3 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.1 J	0.3	0.3 U

Table M-2

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT (2013)	GSIP (2013)	IDC (2013)	IPSIC (2013)	ISVIA (2013)	IVSICI (2013)	SDBL (2013)	RFI-02-14 2 - 4 03/08/05	RFI-02-14 8 - 10 03/08/05	RFI-02-19 1.7 - 4 03/22/05
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	R	0.3 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.7 U	0.7 U
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.3 U	R	0.3 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	0.7 U	0.7 U	0.7 U
3-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	R	0.3 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.7 U	0.7 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	0.7 UJ	R	0.7 UJ
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.3 U	R	0.3 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.7 U	0.7 UJ
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.7 U	0.7 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	R	0.7 U
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.3 U	0.5 J	0.08 J
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.3 U	0.02 J	0.3 U
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	0.3 U	0.3 U	0.3 U
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.03 J	0.4 J	0.2 J
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.1 J	0.7	0.7 J
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	0.1 J	0.9 J	0.9
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.1 J	0.5 J	0.9
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	0.08 J	0.3 J	0.6
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	0.09 J	0.6 J	0.7
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.3 U	0.3 U	0.3 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	0.02 J	0.1 J	0.1 J
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	0.2 J	1.3	0.9
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	0.3 U	0.3 UJ	0.3 U
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.06 J	0.3	0.05 J
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.3 U	0.3 UJ	0.3 U
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	0.3	1.6	1.9
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.01 J	0.5 J	0.06 J
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.3 U	0.3 U	0.3 U
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.3 U	0.3 U	0.3 U
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.3 U	0.3 U	0.3 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.3 U	0.3 U	0.3 U

Table M-2

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT (2013)	GSIP (2013)	IDC (2013)	IPSIC (2013)	ISVIA (2013)	IVSICI (2013)	SDBL (2013)	RFI-02-14 2 - 4 03/08/05	RFI-02-14 8 - 10 03/08/05	RFI-02-19 1.7 - 4 03/22/05
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.07 J	0.2 J	0.6
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.3 U	R	0.3 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.1 J	0.2 J	0.08 J
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.2 U	0.2 U	0.2 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
Pentachlorophenol	mg/kg	- -	0.056	320	130,000	- -	- -	- -	0.7 U	R	0.7 U
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	0.3	2 J	1 J
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.3 U	R	0.3 U
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	0.2 J	1.4	1.3
Pyridine	mg/kg	37	- -	730	100,000	2	9.8	- -	NA	NA	NA
Volatile Organics											
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	NA	NA	NA
2-Ethanoxyethanol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
2-Nitropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	NA	NA	NA
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	NA	NA	NA
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	NA	NA	NA
Cyclohexanone	mg/kg	220,000	- -	1,000,000	29,000,000	32	1,300	- -	NA	NA	NA
Diethyl ether	mg/kg	7,400	- -	360,000	350,000,000	52,000	100,000	- -	NA	NA	NA
Ethyl acetate	mg/kg	7,500	- -	660,000	94,000,000	70,000	59,000	- -	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	NA	NA	NA
Isobutanol	mg/kg	8,900	- -	230,000	44,000,000	430,000	95,000	- -	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	NA	NA	NA
n-Butanol	mg/kg	8,700	200	95,000	10,000,000	- -	- -	- -	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	NA	NA	NA
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	NA	NA	NA
PCB											
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U

Table M-2

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT (2013)	GSIP (2013)	IDC (2013)	IPSIC (2013)	ISVIA (2013)	IVSICI (2013)	SDBL (2013)	RFI-02-14 2 - 4 03/08/05	RFI-02-14 8 - 10 03/08/05	RFI-02-19 1.7 - 4 03/22/05
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.33 U	0.33 U	0.33 U
TPH											
Methanol	mg/kg	3,100	12,000	360,000	96,000,000	67,000	37,000	- -	NA	NA	NA
Inorganic											
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	0.5 U	0.5 U	0.3 U
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	1.08 J	1.72 J	1.19
Barium	mg/kg	- -	26.156	130,000	150,000	- -	- -	75	18.4 J	17.9 J	32.5 (GSIP (2013))
Beryllium	mg/kg	- -	0.646	1,600	590	- -	- -	- -	0.1 U	0.123	0.5 U
Cadmium	mg/kg	- -	0.096	2,100	2,200	- -	- -	1.2	0.19 (GSIP (2013))	0.15 (GSIP (2013))	0.2 U
Chromium III (Trivalent)	mg/kg	- -	3.445	1,000,000	150,000	- -	- -	18	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	- -	- -	19.5	5.07	9.74
Chromium VI (Hexavalent)	mg/kg	- -	3.3	9,200	240	- -	- -	- -	NA	NA	NA
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	1.41	1.74	1.76
Copper	mg/kg	- -	0.432	73,000	59,000	- -	- -	32	12.3 (GSIP (2013))	10.2 (GSIP (2013))	16.5 (GSIP (2013))
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	0.1 U	0.1 U	0.1 U
Lead	mg/kg	- -	0.931	900	44,000	- -	- -	21	**28 (GSIP (2013),SDBL (2013))**	**61.5 (GSIP (2013),SDBL (2013))**	**29.9 (GSIP (2013),SDBL (2013))**
Manganese	mg/kg	- -	97.133	90,000	1,500	- -	- -	440	132 (GSIP (2013))	146 (GSIP (2013))	150 (GSIP (2013))
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	0.05 U	0.05 U	0.06 (GSIP (2013))
Nickel	mg/kg	- -	2.485	150,000	16,000	- -	- -	20	13.8 (GSIP (2013))	5.95 (GSIP (2013))	8.74 (GSIP (2013))
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	0.24	0.2 U	0.34
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	0.2 U	0.2 U	0.1 U
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.1 U	0.1 U	0.5 U
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	2.94	5.21	3.48
Zinc	mg/kg	- -	5.653	630,000	- -	- -	- -	47	7.3 J (GSIP (2013))	13.7 J (GSIP (2013))	17.2 (GSIP (2013))
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	910,000	870,000	940,000

Table M-2

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT (2013)	GSIP (2013)	IDC (2013)	IPSIC (2013)	ISVIA (2013)	IVSICI (2013)	SDBL (2013)	RFI-02-19 8 - 10 03/22/05	RFI-02-20 1.5 - 3.5 03/23/05	RFI-02-20 8 - 10 03/23/05
VOC											
1,1,1,2-Tetrachloroethane	mg/kg	440	- -	2,200	530,000	33	120	- -	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.06 U	0.02 J	0.06 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.06 UJ	0.06 UJ	0.06 UJ
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	0.1 U	0.1 U	0.1 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.06 U	0.06 U	0.06 U
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.06 U	0.06 U	0.06 U
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.06 U	0.06 U	0.06 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	- -	4,200	8,800	7.5	11	- -	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.1 UJ	0.1 UJ	0.1 UJ
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000	36,000,000	8,000	25,000	- -	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.06 UJ	0.06 UJ	0.06 UJ
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.06 U	0.06 U	0.06 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.06 U	0.06 U	0.06 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.06 U	0.06 U	0.06 U
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.06 U	0.06 U	0.06 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000	36,000,000	4,800	19,000	- -	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.06 UJ	0.06 UJ	0.06 UJ
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.06 U	0.06 U	0.06 U
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.9 UJ	0.9 UJ	1 UJ
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	3 UJ	3 UJ	3 UJ
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	- -	- -	- -	- -	- -	- -	- -	3 UJ	3 UJ	3 UJ
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	0.9 UJ	0.9 UJ	1 UJ
Acrylonitrile	mg/kg	8,300	0.1	74	58,000	35	17	- -	NA	NA	NA
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.06 U	0.06 U	0.06 U
Bromobenzene	mg/kg	760	- -	1,700	240,000	580	540	- -	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.06 U	0.06 U	0.06 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.06 U	0.06 U	0.06 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	R	R	R
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.3 U	0.3 U	0.3 U
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.06 U	0.06 U	0.06 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.06 U	0.06 U	0.06 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.3 U	0.3 U	0.3 U
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.06 U	0.06 U	0.06 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.3 U	0.3 U	0.3 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.06 U	0.06 U	0.06 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.06 U	0.06 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 UJ	0.06 UJ	0.06 UJ
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.06 UJ	0.06 UJ	0.06 UJ
Dibromomethane	mg/kg	2,000	- -	8,000	- -	- -	- -	- -	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.06 U	0.06 U	0.06 U
Diethyl ether	mg/kg	7,400	- -	360,000	350,000,000	52,000	100,000	- -	NA	NA	NA

Table M-2

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT (2013)	GSIP (2013)	IDC (2013)	IPSIC (2013)	ISVIA (2013)	IVSICI (2013)	SDBL (2013)	RFI-02-19 8 - 10 03/22/05	RFI-02-20 1.5 - 3.5 03/23/05	RFI-02-20 8 - 10 03/23/05
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.06 U	0.06 U	0.06 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.06 U	0.06 U	0.06 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.06 U	0.06 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	3 U	3 U	3 U
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.3 U	0.3 U	0.3 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.03 J	0.06 U
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.3 U	0.3 U	0.3 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	- -	8,000	880,000	- -	- -	- -	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	- -	8,000	590,000	- -	- -	- -	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.06 U	0.06 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	- -	8,000	180,000	- -	- -	- -	NA	NA	NA
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.06 U	0.06 U	0.06 U
tert-Butylbenzene	mg/kg	10,000	- -	8,000	290,000	- -	- -	- -	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.06 U	0.06 U	0.06 U
Tetrahydrofuran	mg/kg	120,000	220	9,500	170,000,000	2,400	15,000	- -	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.06 U	0.06 U	0.06 U
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.06 U	0.06 U	0.06 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 UJ	0.06 UJ	0.06 UJ
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.06 U	0.06 U	0.06 U
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.1 U	0.1 U	0.1 U
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.1 U	0.1 U	0.1 U
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 UJ	0.7 UJ	0.7 UJ
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.3 U	0.3 U	0.3 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.3 U	0.3 U	0.3 U

Table M-2

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT (2013)	GSIP (2013)	IDC (2013)	IPSIC (2013)	ISVIA (2013)	IVSICI (2013)	SDBL (2013)	RFI-02-19 8 - 10 03/22/05	RFI-02-20 1.5 - 3.5 03/23/05	RFI-02-20 8 - 10 03/23/05
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.7 U	0.7 U
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	0.7 U	0.7 U	0.7 U
3-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.7 U	0.7 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	0.7 UJ	0.7 UJ	0.7 UJ
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 UJ	0.7 U	0.7 UJ
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.7 U	0.7 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.7 U	0.7 U
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.3 U	0.3 U	0.3 U
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.3 U	0.3 U	0.3 U
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	0.3 U	0.3 U	0.3 U
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.3 U	0.3 U	0.3 U
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	0.3 U	0.3 U	0.3 U
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.3 U	0.3 U	0.3 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	0.3 U	0.03 J	0.3 U
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.3 U	0.3 U	0.3 U
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	0.3 U	0.05 J	0.3 U
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.3 U	0.3 U	0.3 U
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.3 U	0.3 U	0.3 U
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.3 U	0.3 U	0.3 U
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.3 U	0.3 U	0.3 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.3 U	0.3 U	0.3 U

Table M-2

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT (2013)	GSIP (2013)	IDC (2013)	IPSIC (2013)	ISVIA (2013)	IVSICI (2013)	SDBL (2013)	RFI-02-19 8 - 10 03/22/05	RFI-02-20 1.5 - 3.5 03/23/05	RFI-02-20 8 - 10 03/23/05
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.3 U	0.3 U	0.3 U
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.2 U	0.2 U	0.2 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
Pentachlorophenol	mg/kg	- -	0.056	320	130,000	- -	- -	- -	0.7 U	0.7 U	0.7 U
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	0.3 U	0.04 J	0.3 U
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.3 U	0.3 U	0.3 U
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	0.3 U	0.3 U	0.3 U
Pyridine	mg/kg	37	- -	730	100,000	2	9.8	- -	NA	NA	NA
Volatile Organics											
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	NA	NA	NA
2-Ethanoxyethanol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
2-Nitropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	NA	NA	NA
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	NA	NA	NA
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	NA	NA	NA
Cyclohexanone	mg/kg	220,000	- -	1,000,000	29,000,000	32	1,300	- -	NA	NA	NA
Diethyl ether	mg/kg	7,400	- -	360,000	350,000,000	52,000	100,000	- -	NA	NA	NA
Ethyl acetate	mg/kg	7,500	- -	660,000	94,000,000	70,000	59,000	- -	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	NA	NA	NA
Isobutanol	mg/kg	8,900	- -	230,000	44,000,000	430,000	95,000	- -	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	NA	NA	NA
n-Butanol	mg/kg	8,700	200	95,000	10,000,000	- -	- -	- -	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	NA	NA	NA
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	NA	NA	NA
PCB											
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U

Table M-2

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT (2013)	GSIP (2013)	IDC (2013)	IPSIC (2013)	ISVIA (2013)	IVSICI (2013)	SDBL (2013)	RFI-02-19 8 - 10 03/22/05	RFI-02-20 1.5 - 3.5 03/23/05	RFI-02-20 8 - 10 03/23/05
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.33 U	0.33 U	0.33 U
TPH											
Methanol	mg/kg	3,100	12,000	360,000	96,000,000	67,000	37,000	- -	NA	NA	NA
Inorganic											
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	0.3 U	0.3 U	0.3 U
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	0.6	2.33	0.56
Barium	mg/kg	- -	26.156	130,000	150,000	- -	- -	75	62.2 (GSIP (2013))	70.3 (GSIP (2013))	**231 (GSIP (2013),SDBL (2013))**
Beryllium	mg/kg	- -	0.646	1,600	590	- -	- -	- -	0.5 U	0.5 U	**1.31 (GSIP (2013))**
Cadmium	mg/kg	- -	0.096	2,100	2,200	- -	- -	1.2	0.23 (GSIP (2013))	0.28 (GSIP (2013))	0.2 U
Chromium III (Trivalent)	mg/kg	- -	3.445	1,000,000	150,000	- -	- -	18	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	- -	- -	3.41	9.9	24
Chromium VI (Hexavalent)	mg/kg	- -	3.3	9,200	240	- -	- -	- -	NA	NA	NA
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	1.91	5.61 (GSIP (2013))	**16.1 (GSIP (2013),SDBL (2013))**
Copper	mg/kg	- -	0.432	73,000	59,000	- -	- -	32	6.9 (GSIP (2013))	**142 (GSIP (2013),SDBL (2013))**	15.9 (GSIP (2013))
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	0.1 U	0.1 U	0.1 U
Lead	mg/kg	- -	0.931	900	44,000	- -	- -	21	6.96 (GSIP (2013))	**399 (GSIP (2013),SDBL (2013))**	12.9 (GSIP (2013))
Manganese	mg/kg	- -	97.133	90,000	1,500	- -	- -	440	394 (GSIP (2013))	311 (GSIP (2013))	**545 (GSIP (2013),SDBL (2013))**
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	0.05 U	0.08 (GSIP (2013))	0.05 U
Nickel	mg/kg	- -	2.485	150,000	16,000	- -	- -	20	3.42 (GSIP (2013))	18.5 (GSIP (2013))	**44.9 (GSIP (2013),SDBL (2013))**
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	0.2 U	0.27	0.2 U
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	0.1 U	0.1 U	0.1 U
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.5 U	0.82	0.5 U
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	5.67	13	18.5
Zinc	mg/kg	- -	5.653	630,000	- -	- -	- -	47	10.5 (GSIP (2013))	**75.9 (GSIP (2013),SDBL (2013))**	**48.8 (GSIP (2013),SDBL (2013))**
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	860,000	840,000	790,000

Table M-2

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT (2013)	GSIP (2013)	IDC (2013)	IPSIC (2013)	ISVIA (2013)	IVSICI (2013)	SDBL (2013)	RFI-02-21 1.5 - 3.5 03/23/05	RFI-02-21 8 - 10 03/23/05	RFI-02-23 1.7 - 3.7 03/24/05	RFI-02-23 8 - 10 03/24/05
VOC												
1,1,1,2-Tetrachloroethane	mg/kg	440	- -	2,200	530,000	33	120	- -	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.06 U	0.06 U	0.05 U	0.06 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.06 UJ	0.06 UJ	0.05 UJ	0.06 UJ
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.06 U	0.06 U	0.05 U	0.06 U
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.06 U	0.06 U	0.05 U	0.06 U
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.06 U	0.06 U	0.05 U	0.06 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	830	- -	4,200	8,800	7.5	11	- -	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000	36,000,000	8,000	25,000	- -	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.06 UJ	0.06 UJ	0.05 UJ	0.06 UJ
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.06 U	0.06 U	0.05 U	0.06 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.06 U	0.06 U	0.05 U	0.06 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.06 U	0.06 U	0.05 U	0.06 U
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.06 U	0.06 U	0.05 U	0.06 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000	36,000,000	4,800	19,000	- -	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.06 UJ	0.06 UJ	0.05 UJ	0.06 UJ
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.06 U	0.06 U	0.05 U	0.06 U
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.9 UJ	0.9 UJ	0.8 UJ	0.9 UJ
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	3 UJ	3 UJ	3 UJ	3 UJ
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	- -	- -	- -	- -	- -	- -	- -	3 UJ	3 UJ	3 UJ	3 UJ
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	0.9 UJ	0.9 UJ	0.8 UJ	0.6 J
Acrylonitrile	mg/kg	8,300	0.1	74	58,000	35	17	- -	NA	NA	NA	NA
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.06 U	0.06 U	0.05 U	0.06 U
Bromobenzene	mg/kg	760	- -	1,700	240,000	580	540	- -	NA	NA	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.06 U	0.06 U	0.05 U	0.06 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.06 U	0.06 U	0.05 UJ	0.06 UJ
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	R	R	R	R
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.3 U	0.3 U	0.3 U	0.3 U
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.06 U	0.06 U	0.05 U	0.06 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.06 U	0.06 U	0.05 U	0.06 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.3 U	0.3 U	0.3 U	0.3 U
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.06 U	0.06 U	0.05 U	0.06 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.3 U	0.3 U	0.3 U	0.3 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.06 U	0.06 U	0.05 U	0.06 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.06 U	0.05 U	0.06 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 UJ	0.06 UJ	0.05 UJ	0.06 UJ
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.06 UJ	0.06 UJ	0.05 UJ	0.06 UJ
Dibromomethane	mg/kg	2,000	- -	8,000	- -	- -	- -	- -	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.06 U	0.06 U	0.05 U	0.06 U
Diethyl ether	mg/kg	7,400	- -	360,000	350,000,000	52,000	100,000	- -	NA	NA	NA	NA

Table M-2

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RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT (2013)	GSIP (2013)	IDC (2013)	IPSIC (2013)	ISVIA (2013)	IVSICI (2013)	SDBL (2013)	RFI-02-21 1.5 - 3.5 03/23/05	RFI-02-21 8 - 10 03/23/05	RFI-02-23 1.7 - 3.7 03/24/05	RFI-02-23 8 - 10 03/24/05
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.06 U	0.06 U	0.05 U	0.05 J
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	NA	NA	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.06 U	0.06 U	0.05 U	0.06 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.06 U	0.05 U	0.19 J
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	3 U	3 U	3 U	3 U
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.3 U	0.3 U	0.3 U	0.3 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.06 U	0.05 U	0.06 U
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.3 U	0.3 U	0.3 U	0.3 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	NA	NA	NA	NA
n-Butylbenzene	mg/kg	10,000	- -	8,000	880,000	- -	- -	- -	NA	NA	NA	NA
n-Propylbenzene	mg/kg	10,000	- -	8,000	590,000	- -	- -	- -	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.06 U	0.05 U	0.03 J
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	10,000	- -	8,000	180,000	- -	- -	- -	NA	NA	NA	NA
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.06 U	0.06 U	0.05 U	0.06 U
tert-Butylbenzene	mg/kg	10,000	- -	8,000	290,000	- -	- -	- -	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.06 U	0.06 U	0.05 U	0.06 U
Tetrahydrofuran	mg/kg	120,000	220	9,500	170,000,000	2,400	15,000	- -	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.06 U	0.06 U	0.05 U	1.36
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.06 U	0.06 U	0.05 U	0.06 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 UJ	0.06 UJ	0.05 UJ	0.06 UJ
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.06 U	0.06 U	0.05 U	0.06 U
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.1 U	0.1 U	0.1 U	0.1 U
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.1 U	0.1 U	0.1 U	0.1 U
SVOC												
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 UJ	0.7 UJ	0.7 UJ	0.7 UJ
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.3 U	0.3 U	0.3 U	0.3 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.3 U	0.3 U	0.3 U	0.3 U

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2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.7 U	0.7 U	0.7 U
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	0.7 U	0.7 U	0.7 U	0.7 U
3-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.7 U	0.7 U	0.7 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	0.7 UJ	0.7 UJ	0.7 UJ	0.7 UJ
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 UJ	0.7 UJ	0.7 U	0.7 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.7 U	0.7 U	0.7 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.7 U	0.7 U	0.7 U
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.3 U	0.3 U	0.3 U	0.3 U
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.3 U	0.3 U	0.3 U	0.3 U
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	0.3 U	0.3 U	0.3 U	0.3 U
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.3 U	0.3 U	0.3 U	0.3 U
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.06 J	0.3 U	0.3 U	0.3 U
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 UJ
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.06 J	0.3 U	0.3 U	0.3 UJ
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 UJ
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	0.07 J	0.3 U	0.3 U	0.3 UJ
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.3 U	0.3 U	0.3 U	0.3 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	0.07 J	0.3 U	0.3 U	0.3 U
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 UJ
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.3 U	0.3 U	0.3 U	0.3 U
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	0.1 J	0.3 U	0.3 U	0.05 J
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.3 U	0.3 U	0.3 U	0.3 U
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.3 U	0.3 U	0.3 U	0.3 U
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.3 U	0.3 U	0.3 U	0.3 U
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.3 U	0.3 U	0.3 U	0.3 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.3 U	0.3 U	0.3 U	0.3 U

Table M-2

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT (2013)	GSIP (2013)	IDC (2013)	IPSIC (2013)	ISVIA (2013)	IVSICI (2013)	SDBL (2013)	RFI-02-21 1.5 - 3.5 03/23/05	RFI-02-21 8 - 10 03/23/05	RFI-02-23 1.7 - 3.7 03/24/05	RFI-02-23 8 - 10 03/24/05
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 UJ
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.3 U	0.3 U	0.3 U	0.3 U
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.2 U	0.2 U	0.2 U	0.2 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
Pentachlorophenol	mg/kg	- -	0.056	320	130,000	- -	- -	- -	0.7 U	0.7 U	0.7 U	0.7 U
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	0.08 J	0.3 U	0.03 J	0.08 J
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	0.1 J	0.3 U	0.3 U	0.04 J
Pyridine	mg/kg	37	- -	730	100,000	2	9.8	- -	NA	NA	NA	NA
Volatile Organics												
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	NA	NA	NA	NA
2-Ethanoxyethanol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
2-Nitropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	NA	NA	NA	NA
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	NA	NA	NA	NA
Cyclohexanone	mg/kg	220,000	- -	1,000,000	29,000,000	32	1,300	- -	NA	NA	NA	NA
Diethyl ether	mg/kg	7,400	- -	360,000	350,000,000	52,000	100,000	- -	NA	NA	NA	NA
Ethyl acetate	mg/kg	7,500	- -	660,000	94,000,000	70,000	59,000	- -	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	NA	NA	NA	NA
Isobutanol	mg/kg	8,900	- -	230,000	44,000,000	430,000	95,000	- -	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	NA	NA	NA	NA
n-Butanol	mg/kg	8,700	200	95,000	10,000,000	- -	- -	- -	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	NA	NA	NA	NA
PCB												
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U

Table M-2

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT (2013)	GSIP (2013)	IDC (2013)	IPSIC (2013)	ISVIA (2013)	IVSICI (2013)	SDBL (2013)	RFI-02-21 1.5 - 3.5 03/23/05	RFI-02-21 8 - 10 03/23/05	RFI-02-23 1.7 - 3.7 03/24/05	RFI-02-23 8 - 10 03/24/05
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U	0.33 U	0.33 U
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.33 U	0.33 U	0.33 U	0.33 U
TPH												
Methanol	mg/kg	3,100	12,000	360,000	96,000,000	67,000	37,000	- -	NA	NA	NA	NA
Inorganic												
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 U
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	1.32	1.11	1.21	0.93
Barium	mg/kg	- -	26.156	130,000	150,000	- -	- -	75	16.4	50.4 (GSIP (2013))	12.9	20.7
Beryllium	mg/kg	- -	0.646	1,600	590	- -	- -	- -	0.5 U	0.5 U	0.5 U	0.5 U
Cadmium	mg/kg	- -	0.096	2,100	2,200	- -	- -	1.2	0.2 U	0.2 U	0.2 U	0.2 U
Chromium III (Trivalent)	mg/kg	- -	3.445	1,000,000	150,000	- -	- -	18	NA	NA	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	- -	- -	2.32	4.17	15.4	2 U
Chromium VI (Hexavalent)	mg/kg	- -	3.3	9,200	240	- -	- -	- -	NA	NA	NA	NA
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	1.81	2.3 (GSIP (2013))	1.62	1.29
Copper	mg/kg	- -	0.432	73,000	59,000	- -	- -	32	22.5 (GSIP (2013))	5.6 (GSIP (2013))	23.7 (GSIP (2013))	3.6 (GSIP (2013))
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	0.1 U	0.1 U	0.1 U	0.1 U
Lead	mg/kg	- -	0.931	900	44,000	- -	- -	21	**27.6 (GSIP (2013),SDBL (2013))**	6.36 (GSIP (2013))	6.04 (GSIP (2013))	3.99 (GSIP (2013))
Manganese	mg/kg	- -	97.133	90,000	1,500	- -	- -	440	136 (GSIP (2013))	66.8	183 (GSIP (2013))	163 (GSIP (2013))
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	0.05 U	0.05 U	0.05 U	0.05 U
Nickel	mg/kg	- -	2.485	150,000	16,000	- -	- -	20	3.82 (GSIP (2013))	4.93 (GSIP (2013))	11.3 (GSIP (2013))	2.75 (GSIP (2013))
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	**0.87 (GSIP (2013),SDBL (2013))**	0.31	0.2 U	0.2 U
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	0.1 U	0.1 U	0.1 U	0.1 U
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.5 U	0.5 U	0.5 U	0.5 U
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	3.81	5.41	2.15	3.44
Zinc	mg/kg	- -	5.653	630,000	- -	- -	- -	47	30.7 (GSIP (2013))	17.4 (GSIP (2013))	7.3 (GSIP (2013))	7.6 (GSIP (2013))
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	850,000	830,000	920,000	850,000

Table M-2

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT (2013)	GSIP (2013)	IDC (2013)	IPSIC (2013)	ISVIA (2013)	IVSICI (2013)	SDBL (2013)	RFI-02-24 1.3 - 3.3 03/24/05	RFI-02-24 8 - 10 03/24/05
VOC										
1,1,1,2-Tetrachloroethane	mg/kg	440	- -	2,200	530,000	33	120	- -	NA	NA
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.06 U	0.06 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.06 UJ	0.06 UJ
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	0.1 U	0.1 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.06 U	0.06 U
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.06 U	0.06 U
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.06 U	0.06 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
1,2,3-Trichloropropane	mg/kg	830	- -	4,200	8,800	7.5	11	- -	NA	NA
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.1 UJ	0.1 UJ
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000	36,000,000	8,000	25,000	- -	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.06 UJ	0.06 UJ
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.06 U	0.06 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.06 U	0.06 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.06 U	0.06 U
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.06 U	0.06 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000	36,000,000	4,800	19,000	- -	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.06 UJ	0.06 UJ
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.06 U	0.06 U
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.9 UJ	0.8 UJ
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	3 UJ	3 UJ
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	NA	NA
4-Methyl-2-pentanone	mg/kg	- -	- -	- -	- -	- -	- -	- -	3 UJ	3 UJ
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	0.9 UJ	0.8 UJ
Acrylonitrile	mg/kg	8,300	0.1	74	58,000	35	17	- -	NA	NA
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.06 U	0.06 U
Bromobenzene	mg/kg	760	- -	1,700	240,000	580	540	- -	NA	NA
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.06 U	0.06 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.06 UJ	0.06 UJ
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	R	R
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.3 U	0.3 U
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.06 U	0.06 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.06 U	0.06 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.3 U	0.3 U
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.06 U	0.06 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.3 U	0.3 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.06 U	0.06 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.06 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 UJ	0.06 UJ
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.06 UJ	0.06 UJ
Dibromomethane	mg/kg	2,000	- -	8,000	- -	- -	- -	- -	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.06 U	0.06 U
Diethyl ether	mg/kg	7,400	- -	360,000	350,000,000	52,000	100,000	- -	NA	NA

Table M-2

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT (2013)	GSIP (2013)	IDC (2013)	IPSIC (2013)	ISVIA (2013)	IVSICI (2013)	SDBL (2013)	RFI-02-24 1.3 - 3.3 03/24/05	RFI-02-24 8 - 10 03/24/05
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.06 U	0.06 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	NA	NA
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.06 U	0.06 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.06 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 J	3 U
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.3 U	0.3 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.06 U
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.3 U	0.3 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	NA	NA
n-Butylbenzene	mg/kg	10,000	- -	8,000	880,000	- -	- -	- -	NA	NA
n-Propylbenzene	mg/kg	10,000	- -	8,000	590,000	- -	- -	- -	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.06 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
sec-Butylbenzene	mg/kg	10,000	- -	8,000	180,000	- -	- -	- -	NA	NA
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.06 U	0.06 U
tert-Butylbenzene	mg/kg	10,000	- -	8,000	290,000	- -	- -	- -	NA	NA
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.06 U	0.06 U
Tetrahydrofuran	mg/kg	120,000	220	9,500	170,000,000	2,400	15,000	- -	NA	NA
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.06 U	0.06 U
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.06 U	0.06 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 UJ	0.06 UJ
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.06 U	0.06 U
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.1 U	0.1 U
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.1 U	0.1 U
SVOC										
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.3 U	0.3 U
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.3 U	0.3 U
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.3 U	0.3 U
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.3 U	0.3 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 UJ	0.7 UJ
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.3 U	0.3 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.3 U	0.3 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.3 U	0.3 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.3 U	0.3 U

Table M-2

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT (2013)	GSIP (2013)	IDC (2013)	IPSIC (2013)	ISVIA (2013)	IVSICI (2013)	SDBL (2013)	RFI-02-24 1.3 - 3.3 03/24/05	RFI-02-24 8 - 10 03/24/05
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.7 U
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.3 U	0.3 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	0.7 U	0.7 U
3-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.7 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	0.7 UJ	0.7 UJ
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.3 U	0.3 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.7 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.7 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.7 U	0.7 U
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.3 U	0.3 U
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.3 U	0.3 U
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	0.3 U	0.3 U
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.3 U	0.3 U
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	0.3 U	0.3 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.3 U	0.3 UJ
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	0.3 UJ	0.3 UJ
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.3 UJ	0.3 UJ
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	0.3 UJ	0.3 UJ
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	0.3 UJ	0.3 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.3 U	0.3 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.3 U	0.3 U
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	0.3 U	0.3 U
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	0.3 U	0.3 U
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	0.3 U	0.3 U
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	0.3 U	0.3 U
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	0.3 UJ	0.3 UJ
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.3 U	0.3 U
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.3 U	0.3 U
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.3 U	0.3 U
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.3 U	0.3 U
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.3 U	0.3 U
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	0.3 U	0.3 U
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.3 U	0.3 U
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.3 U	0.3 U
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.3 U	0.3 U
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.3 U	0.3 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.3 U	0.3 U

Table M-2

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT (2013)	GSIP (2013)	IDC (2013)	IPSIC (2013)	ISVIA (2013)	IVSICI (2013)	SDBL (2013)	RFI-02-24 1.3 - 3.3 03/24/05	RFI-02-24 8 - 10 03/24/05
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 UJ	0.3 UJ
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.3 U	0.3 U
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.3 U	0.3 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.3 U	0.3 U
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.2 U	0.2 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.3 U	0.3 U
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.3 U	0.3 U
Pentachlorophenol	mg/kg	- -	0.056	320	130,000	- -	- -	- -	0.7 U	0.7 U
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	0.3 U	0.3 U
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.3 U	0.3 U
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	0.3 U	0.3 U
Pyridine	mg/kg	37	- -	730	100,000	2	9.8	- -	NA	NA
Volatile Organics										
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	NA	NA
2-Ethanoxyethanol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
2-Nitropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
4-Methyl-2-pentanone	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	NA	NA
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	NA	NA
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	NA	NA
Cyclohexanone	mg/kg	220,000	- -	1,000,000	29,000,000	32	1,300	- -	NA	NA
Diethyl ether	mg/kg	7,400	- -	360,000	350,000,000	52,000	100,000	- -	NA	NA
Ethyl acetate	mg/kg	7,500	- -	660,000	94,000,000	70,000	59,000	- -	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	NA	NA
Isobutanol	mg/kg	8,900	- -	230,000	44,000,000	430,000	95,000	- -	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	NA	NA
n-Butanol	mg/kg	8,700	200	95,000	10,000,000	- -	- -	- -	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	NA	NA
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	NA	NA
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	NA	NA
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	NA	NA
PCB										
Aroclor-1016	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U
Aroclor-1221	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U
Aroclor-1232	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U
Aroclor-1242	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U
Aroclor-1248	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U

Table M-2

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	CSAT (2013)	GSIP (2013)	IDC (2013)	IPSIC (2013)	ISVIA (2013)	IVSICI (2013)	SDBL (2013)	RFI-02-24 1.3 - 3.3 03/24/05	RFI-02-24 8 - 10 03/24/05
Aroclor-1254	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U
Aroclor-1260	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.33 U	0.33 U
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.33 U	0.33 U
TPH										
Methanol	mg/kg	3,100	12,000	360,000	96,000,000	67,000	37,000	- -	NA	NA
Inorganic										
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	0.3 U	0.3 U
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	2.97	1.34
Barium	mg/kg	- -	26.156	130,000	150,000	- -	- -	75	32.7 (GSIP (2013))	70 (GSIP (2013))
Beryllium	mg/kg	- -	0.646	1,600	590	- -	- -	- -	0.5 U	0.5 U
Cadmium	mg/kg	- -	0.096	2,100	2,200	- -	- -	1.2	0.25 (GSIP (2013))	0.2 U
Chromium III (Trivalent)	mg/kg	- -	3.445	1,000,000	150,000	- -	- -	18	NA	NA
Chromium Total	mg/kg	- -	- -	- -	- -	- -	- -	- -	5.19	4.02
Chromium VI (Hexavalent)	mg/kg	- -	3.3	9,200	240	- -	- -	- -	NA	NA
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	1.35	2.81 (GSIP (2013))
Copper	mg/kg	- -	0.432	73,000	59,000	- -	- -	32	7.2 (GSIP (2013))	4.6 (GSIP (2013))
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	0.1 U	0.1 U
Lead	mg/kg	- -	0.931	900	44,000	- -	- -	21	18.4 (GSIP (2013))	4.96 (GSIP (2013))
Manganese	mg/kg	- -	97.133	90,000	1,500	- -	- -	440	193 (GSIP (2013))	179 (GSIP (2013))
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	0.05 U	0.05 U
Nickel	mg/kg	- -	2.485	150,000	16,000	- -	- -	20	4.91 (GSIP (2013))	6.11 (GSIP (2013))
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	0.34	0.39
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	0.1 U	0.1 U
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.5 U	0.5 U
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	3.97	5.74
Zinc	mg/kg	- -	5.653	630,000	- -	- -	- -	47	20.9 (GSIP (2013))	13.5 (GSIP (2013))
Miscellaneous										
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	820,000	900,000

Table M-3

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	RFI-02-14 03/22/05
VOC		
1,1,1-Trichloroethane	mg/kg	0.5 U
1,1,2,2-Tetrachloroethane	mg/kg	0.5 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	1 U
1,1,2-Trichloroethane	mg/kg	0.5 U
1,1-Dichloroethane	mg/kg	0.5 U
1,1-Dichloroethene	mg/kg	0.5 U
1,2,4-Trichlorobenzene	mg/kg	1 U
1,2-Dibromo-3-chloropropane	mg/kg	0.5 U
1,2-Dibromoethane	mg/kg	0.5 U
1,2-Dichlorobenzene	mg/kg	0.5 U
1,2-Dichloroethane	mg/kg	0.5 U
1,2-Dichloropropane	mg/kg	0.5 U
1,3-Dichlorobenzene	mg/kg	0.5 U
1,4-Dichlorobenzene	mg/kg	0.5 U
2-Butanone	mg/kg	8 UJ
2-Hexanone	mg/kg	30 UJ
4-Methyl-2-pentanone	mg/kg	30 U
Acetone	mg/kg	8 UJ
Benzene	mg/kg	0.5 U
Bromodichloromethane	mg/kg	0.5 U
Bromoform	mg/kg	0.5 UJ
Bromomethane	mg/kg	R
Carbon Disulfide	mg/kg	3 U
Carbon Tetrachloride	mg/kg	0.5 U
Chlorobenzene	mg/kg	0.5 U
Chloroethane	mg/kg	3 U
Chloroform	mg/kg	0.5 U
Chloromethane	mg/kg	3 U
cis-1,2-Dichloroethene	mg/kg	0.5 U
cis-1,3-Dichloropropene	mg/kg	0.5 U
Cyclohexane	mg/kg	0.5 UJ
Dibromochloromethane	mg/kg	0.5 U
Dichlorodifluoromethane	mg/kg	0.5 UJ
Ethylbenzene	mg/kg	0.5 U
Isopropylbenzene	mg/kg	0.5 U
m&p-Xylene	mg/kg	0.5 U
Methyl acetate	mg/kg	30 U
Methyl tert-butyl ether	mg/kg	3 U
Methylcyclohexane	mg/kg	0.5 U
Methylene Chloride	mg/kg	3 U
o-Xylene	mg/kg	0.5 U
Styrene	mg/kg	0.5 U
Tetrachloroethene	mg/kg	0.5 U
Toluene	mg/kg	0.5 U
trans-1,2-Dichloroethene	mg/kg	0.5 U
trans-1,3-Dichloropropene	mg/kg	0.5 U
Trichloroethene	mg/kg	0.5 U
Trichlorofluoromethane	mg/kg	1 U
Vinyl Chloride	mg/kg	1 U
SVOC		

Table M-3

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	RFI-02-14 / 03/22/05
1,1'-Biphenyl	mg/kg	60 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	60 U
2,4,5-Trichlorophenol	mg/kg	60 U
2,4,6-Trichlorophenol	mg/kg	60 U
2,4-Dichlorophenol	mg/kg	60 U
2,4-Dimethylphenol	mg/kg	60 U
2,4-Dinitrophenol	mg/kg	100 UJ
2,4-Dinitrotoluene	mg/kg	60 U
2,6-Dinitrotoluene	mg/kg	60 U
2-Chloronaphthalene	mg/kg	60 U
2-Chlorophenol	mg/kg	60 U
2-Methylnaphthalene	mg/kg	60 U
2-Methylphenol	mg/kg	60 U
2-Nitroaniline	mg/kg	100 U
2-Nitrophenol	mg/kg	60 U
3,3'-Dichlorobenzidine	mg/kg	100 U
3-Methylphenol	mg/kg	60 U
3-Nitroaniline	mg/kg	100 U
4,6-Dinitro-2-methylphenol	mg/kg	100 UJ
4-Bromophenyl-phenylether	mg/kg	60 U
4-Chloro-3-Methylphenol	mg/kg	60 U
4-Chloroaniline	mg/kg	100 U
4-Chlorophenyl-phenylether	mg/kg	60 U
4-Nitroaniline	mg/kg	100 U
4-Nitrophenol	mg/kg	100 U
Acenaphthene	mg/kg	60 U
Acenaphthylene	mg/kg	60 U
Acetophenone	mg/kg	60 U
Anthracene	mg/kg	60 U
Atrazine	mg/kg	60 U
Benzaldehyde	mg/kg	60 U
Benzo(a)anthracene	mg/kg	60 U
Benzo(a)pyrene	mg/kg	60 U
Benzo(b)fluoranthene	mg/kg	60 U
Benzo(g,h,i)perylene	mg/kg	60 U
Benzo(k)fluoranthene	mg/kg	60 U
bis(2-Chloroethoxy)methane	mg/kg	60 U
bis(2-Chloroethyl)ether	mg/kg	60 U
bis(2-Ethylhexyl)phthalate	mg/kg	60 U
Butylbenzylphthalate	mg/kg	60 U
Caprolactam	mg/kg	60 U
Carbazole	mg/kg	60 U
Chrysene	mg/kg	60 U
Dibenzo(a,h)anthracene	mg/kg	60 U
Dibenzofuran	mg/kg	60 U
Diethylphthalate	mg/kg	60 U
Dimethylphthalate	mg/kg	60 U
Di-n-Butylphthalate	mg/kg	60 U
Di-n-Octylphthalate	mg/kg	60 U
Fluoranthene	mg/kg	30 J
Fluorene	mg/kg	60 U
Hexachlorobenzene	mg/kg	60 U

Table M-3

Priority #16 - AOI 02-B Hydraulic Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	RFI-02-14 / 03/22/05
Hexachlorobutadiene	mg/kg	60 U
Hexachlorocyclopentadiene	mg/kg	60 UJ
Hexachloroethane	mg/kg	60 U
Indeno(1,2,3-cd)pyrene	mg/kg	60 U
Isophorone	mg/kg	60 U
Methylphenols, Total	mg/kg	60 U
Naphthalene	mg/kg	60 U
Nitrobenzene	mg/kg	60 U
N-Nitroso-di-n-propylamine	mg/kg	60 U
N-Nitrosodiphenylamine	mg/kg	60 U
Pentachlorophenol	mg/kg	100 U
Phenanthrene	mg/kg	33 J
Phenol	mg/kg	60 U
Pyrene	mg/kg	26 J
PCB		
Aroclor-1016	mg/kg	1 U
Aroclor-1221	mg/kg	1 U
Aroclor-1232	mg/kg	1 U
Aroclor-1242	mg/kg	1 U
Aroclor-1248	mg/kg	1 U
Aroclor-1254	mg/kg	1 U
Aroclor-1260	mg/kg	1 U
Total PCBs	mg/kg	1 U
Inorganic		
Antimony	mg/kg	0.3 U
Arsenic	mg/kg	0.1 U
Barium	mg/kg	1 U
Beryllium	mg/kg	0.5 U
Cadmium	mg/kg	0.2 U
Chromium Total	mg/kg	2 U
Cobalt	mg/kg	0.5 U
Copper	mg/kg	1 U
Cyanide (total)	mg/kg	10 U
Lead	mg/kg	1 U
Manganese	mg/kg	1 U
Mercury	mg/kg	0.05 U
Nickel	mg/kg	1 U
Selenium	mg/kg	0.2 U
Silver	mg/kg	0.1 U
Thallium	mg/kg	0.5 U
Vanadium	mg/kg	1 U
Zinc	mg/kg	1 U
Miscellaneous		
Bulk Density	g/cc	0.95
Total Solids	mg/kg	486,000

Table N-1

Priority #17 - AOI 36-5 Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	20-102 09/25/01	20-102 06/21/02	20-102 03/27/03	20-102 06/05/13	20-102 09/17/13	20-500 09/21/01	20-500 06/14/02	20-500 03/26/03	20-500R 11/02/06	20-500R 10/26/07	20-500R 09/15/08	20-500R 09/23/09
VOC																
1,1,1,2-Tetrachloroethane	ug/L	- -	96,000	1,100,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/L	- -	1,300,000	1,330,000	11	1.5 J	1.7	1 U	2	1 U	1 U	1 U	5 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	- -	77,000	2,970,000	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	5 U	1 U	1 U	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	- -	170,000	170,000	1 U	1 U	1 U	30 U	30 U	1 U	1 U	1 U	200 U	30 U	30 U	30 U
1,1,2-Trichloroethane	ug/L	- -	110,000	4,420,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	380,000	2,300,000	5,060,000	0.69 J	1 U	1 U	1 U	1 U	0.65 J	1 U	1.2	5 U	1 U	1 U	0.2
1,1-Dichloroethene	ug/L	97,000	1,300	2,250,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	ug/L	- -	18,000	1,900,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	- -	300,000	300,000	5 U	5 U	5 U	2 U	2 U	5 U	5 U	5 U	10 U	2 U	2 U	2 U
1,2,4-Trimethylbenzene	ug/L	56,000	56,000	55,890	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	- -	1,200	1,230	1 U	1 UJ	1 UJ	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
1,2-Dibromoethane	ug/L	- -	15,000	4,200,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
1,2-Dichlorobenzene	ug/L	- -	160,000	156,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/L	2,500,000	59,000	8,520,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/L	550,000	36,000	2,800,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/L	- -	61,000	61,150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/L	- -	41,000	111,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
1,4-Dichlorobenzene	ug/L	- -	74,000	73,800	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
2-Butanone	ug/L	- -	240,000,000	240,000,000	25 U	25 UJ	25 U	20 U	20 U	25 U	25 U	25 U	100 UJ	20 U	20 U	20 U
2-Hexanone	ug/L	- -	8,700,000	16,000,000	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	300 UJ	50 U	50 UJ	50 U
2-Methylnaphthalene	ug/L	- -	25,000	24,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	ug/L	- -	20,000,000	20,000,000	50 U	50 U	50 U	10 U	10 U	50 U	50 U	50 U	50 U	10 U	10 U	10 U
Acetone	ug/L	15,000,000	1,000,000,000	1,000,000,000	25 U	25 U	25 U	20 U	20 U	25 U	25 U	25 U	100 UJ	20 U	20 U	20 U
Acrylonitrile	ug/L	6,400,000	190,000	75,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/L	68,000	35,000	1,750,000	1 U	1 U	1 U	1 U	1 U	4.7	1.3	1.7	25	65	0.4 J	0.6
Bromobenzene	ug/L	- -	390,000	413,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/L	- -	37,000	6,740,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
Bromoform	ug/L	- -	3,100,000	3,100,000	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
Bromomethane	ug/L	- -	9,000	14,500,000	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	10 U	2 U	2 U	2 U
Carbon Disulfide	ug/L	13,000	550,000	1,190,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	30 U	5 U	5 U	5 U
Carbon Tetrachloride	ug/L	- -	2,400	793,000	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
Chlorobenzene	ug/L	160,000	470,000	472,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
Chloroethane	ug/L	110,000	5,700,000	5,740,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
Chloroform	ug/L	- -	180,000	7,920,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
Chloromethane	ug/L	36,000	45,000	6,340,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	ug/L	530,000	210,000	3,500,000	5.4	1.4	1 U	1	19	1 U	1 U	12	5 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
Cyclohexane	ug/L	- -	- -	- -	5 U	5 U	5 U	1 U	1 U	5 U	5 U	5 U	5 U	8 U	1 UJ	1 U
Dibromochloromethane	ug/L	- -	110,000	2,600,000	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U

Table N-1

Priority #17 - AOI 36-5 Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	20-102 09/25/01	20-102 06/21/02	20-102 03/27/03	20-102 06/05/13	20-102 09/17/13	20-500 09/21/01	20-500 06/14/02	20-500 03/26/03	20-500R 11/02/06	20-500R 10/26/07	20-500R 09/15/08	20-500R 09/23/09
Dibromomethane	ug/L	- -	- -	11,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/L	- -	300,000	300,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
Diethyl ether	ug/L	650,000	61,000,000	61,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/L	43,000	170,000	169,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	429	131	4	1 U
Hexachloroethane	ug/L	- -	50,000	50,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	ug/L	29,000	56,000	56,000	5 U	5 U	5 U	1 U	1 U	5 U	5 U	5 U	326	252	8	6
m&p-Xylene	ug/L	- -	- -	- -	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	74	14	1 U	1 U
Methyl acetate	ug/L	- -	- -	- -	5 U	5 U	5 UJ	10 U	10 U	5 U	5 U	5 U	50 U	10 U	10 U	10 U
Methyl tert-butyl ether	ug/L	- -	47,000,000	46,800,000	5 U	5 U	5 U	5 U	5 U	0.68 J	5 U	5 U	30 U	5 U	5 U	5 U
Methylcyclohexane	ug/L	- -	- -	- -	1 U	1 U	1 U	20 U	20 U	1 U	1 U	1 U	10 J	20 J	5 J	0.7
Methylene Chloride	ug/L	- -	1,400,000	17,000,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	30 U	5 U	5 U	5 U
Naphthalene	ug/L	- -	31,000	31,000	NA	NA	NA	5 U	1 U	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	ug/L	- -	- -	- -	NA	NA	NA	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
o-Xylene	ug/L	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 J	0.8 J	1 U	1 U
p-Isopropyltoluene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/L	140,000	310,000	310,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
tert-Butylbenzene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/L	- -	170,000	200,000	1.8	0.74 J	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
Tetrahydrofuran	ug/L	60,000	16,000,000	1,000,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/L	61,000	530,000	526,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.9 J	1 U	1 U	0.1
trans-1,2-Dichloroethene	ug/L	230,000	200,000	6,300,000	1.2	1 U	1 U	1 U	3	1 U	1 U	2	5 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/L	- -	4,900	1,100,000	44	12	7.8	2	16	1 U	1 U	4.2	5 U	1 U	1 U	1 U
Trichlorofluoromethane	ug/L	- -	1,100,000	1,100,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
Vinyl Chloride	ug/L	33,000	13,000	2,760,000	1 U	1 U	1 U	1 U	2	1 U	1 U	1 U	5 U	1 U	1 U	1 U
Xylenes (total)	ug/L	70,000	190,000	186,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 J	0.8 J	1 U	1 U
SVOC																
1,1'-Biphenyl	ug/L	- -	- -	- -	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	- -	- -	1,200,000	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	- -	- -	800,000	4 U	NA	NA	NA	NA	4.4 U	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	- -	- -	4,500,000	10 U	NA	NA	NA	NA	11 U	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	- -	- -	7,870,000	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	20 U	NA	NA	NA	NA	22 U	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	- -	- -	270,000	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	- -	- -	6,740	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	- -	1,100,000	22,000,000	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA

Table N-1

Priority #17 - AOI 36-5 Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	20-102 09/25/01	20-102 06/21/02	20-102 03/27/03	20-102 06/05/13	20-102 09/17/13	20-500 09/21/01	20-500 06/14/02	20-500 03/26/03	20-500R 11/02/06	20-500R 10/26/07	20-500R 09/15/08	20-500R 09/23/09
2-Methylnaphthalene	ug/L	- -	25,000	24,600	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	- -	- -	- -	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	- -	- -	- -	20 U	NA	NA	NA	NA	22 U	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	- -	- -	2,500,000	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	- -	- -	- -	10 U	NA	NA	NA	NA	11 UJ	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	- -	- -	3,110	20 U	NA	NA	NA	NA	22 U	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	20 U	NA	NA	NA	NA	22 U	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	20 U	NA	NA	NA	NA	22 U	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	ug/L	- -	- -	3,900,000	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	- -	- -	- -	20 U	NA	NA	NA	NA	22 U	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	5 U	NA	NA	NA	NA	R	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	- -	- -	- -	20 U	NA	NA	NA	NA	22 U	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	- -	- -	- -	20 U	NA	NA	NA	NA	22 U	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	- -	4,200	4,240	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	- -	3,900	3,930	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	- -	6,100,000	6,100,000	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	- -	43	43.4	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	- -	- -	70,000	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	5 U	NA	NA	NA	NA	5.6 UJ	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	- -	- -	9.4	1 U	NA	NA	NA	NA	1.1 U	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	- -	- -	1.62	2 U	NA	NA	NA	NA	2.2 U	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	- -	- -	1.5	2 U	NA	NA	NA	NA	2.2 U	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	- -	- -	0.26	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	- -	- -	0.8	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000	210,000	17,200,000	1 U	NA	NA	NA	NA	1.1 U	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	- -	- -	340	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	ug/L	- -	- -	2,690	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	- -	- -	5,250,000,000	10 U	NA	NA	NA	NA	11 U	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	- -	- -	7,480	10 U	NA	NA	NA	NA	11 U	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	- -	- -	1.6	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/L	- -	- -	2.49	2 U	NA	NA	NA	NA	2.2 U	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	- -	10,000	10,000	4 U	NA	NA	NA	NA	4.4 U	NA	NA	NA	NA	NA	NA
Diethylphthalate	ug/L	- -	- -	1,080,000	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
Dimethylphthalate	ug/L	- -	- -	4,190,000	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	ug/L	- -	- -	11,200	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	ug/L	- -	- -	3,000	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	- -	210	206	2 U	NA	NA	NA	NA	2.2 U	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	- -	2,000	1,980	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/L	- -	3,000	6,200	1 U	NA	NA	NA	NA	1.1 U	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	- -	3,200	3,230	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA

Table N-1

Priority #17 - AOI 36-5 Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	20-102 09/25/01	20-102 06/21/02	20-102 03/27/03	20-102 06/05/13	20-102 09/17/13	20-500 09/21/01	20-500 06/14/02	20-500 03/26/03	20-500R 11/02/06	20-500R 10/26/07	20-500R 09/15/08	20-500R 09/23/09
Hexachlorocyclopentadiene	ug/L	- -	420	1,800	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	- -	50,000	50,000	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	- -	- -	0.022	2 U	NA	NA	NA	NA	2.2 U	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	- -	- -	12,000,000	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
Methylphenols, Total	ug/L	- -	- -	28,000,000	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	- -	31,000	31,000	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	- -	550,000	2,090,000	2 U	NA	NA	NA	NA	2.2 U	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	ug/L	- -	- -	9,890,000	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	- -	- -	35,100	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	- -	- -	1,850,000	20 U	NA	NA	NA	NA	22 U	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	- -	1,000	1,000	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
Phenol	ug/L	- -	- -	82,800,000	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	- -	140	135	5 U	NA	NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA
PCB																
Aroclor-1016	ug/L	- -	- -	- -	0.11 U	NA	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA	NA
Aroclor-1221	ug/L	- -	- -	- -	0.11 U	NA	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA	NA
Aroclor-1232	ug/L	- -	- -	- -	0.11 U	NA	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA	NA
Aroclor-1242	ug/L	- -	- -	- -	0.11 U	NA	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA	NA
Aroclor-1248	ug/L	- -	- -	- -	0.11 U	NA	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA	NA
Aroclor-1254	ug/L	- -	- -	- -	0.11 U	NA	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA	NA
Aroclor-1260	ug/L	- -	- -	- -	0.11 U	NA	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA	NA
Total PCBs	ug/L	- -	45	44.7	0.11 U	NA	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA	NA
PCB-Dissolved																
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	0.11 U	NA	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	0.11 U	NA	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	0.11 U	NA	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	0.11 U	NA	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	0.11 U	NA	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	0.11 U	NA	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	0.11 U	NA	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA	NA
Total PCBs (Dissolved)	ug/L	- -	45	44.7	0.11 U	NA	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA	NA
Inorganic																
Antimony	ug/L	- -	- -	- -	NA	NA	0.34 J	NA	NA	NA	NA	1.2 U	NA	NA	NA	NA
Arsenic	ug/L	- -	- -	- -	NA	NA	1 U	NA	NA	NA	NA	50	NA	NA	NA	NA
Barium	ug/L	- -	- -	- -	NA	NA	220	NA	NA	NA	NA	400	NA	NA	NA	NA
Beryllium	ug/L	- -	- -	- -	NA	NA	0.4 U	NA	NA	NA	NA	0.4 U	NA	NA	NA	NA
Cadmium	ug/L	- -	- -	- -	NA	NA	0.43	NA	NA	NA	NA	0.2 U	NA	NA	NA	NA
Chromium Total	ug/L	- -	- -	- -	NA	NA	1.9	NA	NA	NA	NA	1.8	NA	NA	NA	NA
Cobalt	ug/L	- -	- -	- -	NA	NA	3.3	NA	NA	NA	NA	2.2	NA	NA	NA	NA
Copper	ug/L	- -	- -	- -	NA	NA	6.5	NA	NA	NA	NA	9.7	NA	NA	NA	NA
Cyanide (total)	ug/L	- -	- -	- -	5.8	NA	7.6	NA	NA	5 U	NA	29	NA	NA	NA	NA
Lead	ug/L	- -	- -	- -	NA	NA	0.71	NA	NA	NA	NA	1.3	NA	NA	NA	NA

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Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	20-102 09/25/01	20-102 06/21/02	20-102 03/27/03	20-102 06/05/13	20-102 09/17/13	20-500 09/21/01	20-500 06/14/02	20-500 03/26/03	20-500R 11/02/06	20-500R 10/26/07	20-500R 09/15/08	20-500R 09/23/09
Manganese	ug/L	- -	- -	- -	NA	NA	1,000	NA	NA	NA	NA	440	NA	NA	NA	NA
Mercury	ug/L	- -	56	56	0.2 U	NA	0.2 U	NA	NA	0.2 U	NA	0.2 U	NA	NA	NA	NA
Nickel	ug/L	- -	- -	- -	NA	NA	23	NA	NA	NA	NA	17	NA	NA	NA	NA
Selenium	ug/L	- -	- -	- -	NA	NA	1.6 U	NA	NA	NA	NA	1.7	NA	NA	NA	NA
Silver	ug/L	- -	- -	- -	NA	NA	0.4 U	NA	NA	NA	NA	0.28 J	NA	NA	NA	NA
Thallium	ug/L	- -	- -	- -	NA	NA	0.2 U	NA	NA	NA	NA	0.2 U	NA	NA	NA	NA
Vanadium	ug/L	- -	- -	- -	NA	NA	0.8 U	NA	NA	NA	NA	0.8 U	NA	NA	NA	NA
Zinc	ug/L	- -	- -	- -	NA	NA	29	NA	NA	NA	NA	21	NA	NA	NA	NA
Inorganic-Dissolved																
Antimony (Dissolved)	ug/L	- -	- -	- -	1.2 U	NA	NA	NA	NA	1.2 U	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	ug/L	- -	- -	- -	3.7 J	NA	NA	NA	NA	41	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	ug/L	- -	- -	- -	240	NA	NA	NA	NA	660	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	ug/L	- -	- -	- -	0.4 U	NA	NA	NA	NA	0.4 U	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	ug/L	- -	- -	- -	0.54	NA	NA	NA	NA	0.2 U	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	ug/L	- -	- -	- -	0.69	NA	NA	NA	NA	0.74	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	ug/L	- -	- -	- -	2.3	NA	NA	NA	NA	0.4	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	ug/L	- -	- -	- -	9.8	NA	NA	NA	NA	14	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	ug/L	- -	- -	- -	5.2	NA	NA	NA	NA	2.2 J	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	ug/L	- -	- -	- -	0.4 U	NA	NA	NA	NA	0.4 U	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	ug/L	- -	- -	- -	1,000 J	NA	NA	NA	NA	180	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	ug/L	- -	- -	- -	0.2 U	NA	NA	NA	NA	0.2 U	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	ug/L	- -	- -	- -	11 J	NA	NA	NA	NA	9.8	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	ug/L	- -	- -	- -	1.4 U	NA	NA	NA	NA	1.4 U	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	ug/L	- -	- -	- -	0.4 U	NA	NA	NA	NA	0.4 U	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	ug/L	- -	- -	- -	0.2 U	NA	NA	NA	NA	0.2 U	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	ug/L	- -	- -	- -	0.8 U	NA	NA	NA	NA	0.8 U	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	ug/L	- -	- -	- -	11	NA	NA	NA	NA	46	NA	NA	NA	NA	NA	NA
Field Parameters																
Conductivity Field	mS/cm	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.253	7.405
ORP, Field	millivolts	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	192 -	76.9 -
pH Field	s.u.	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.77	6.99
Temperature, Ambient	deg f	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	65	68
Temperature, Field	Deg C	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.17	17.91
Turbidity (Field)	NTU	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.98	1.6
Field Parameters-Filtered																
Dissolved Oxygen, Field	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,220	480

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Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	20-500R 10/14/10	20-500R 10/20/11	20-500R 11/07/12	20-500R 06/05/13	37-01 09/26/01	37-01 12/18/02	RFI-36-13 11/09/01	RFI-36-13 06/24/02	RFI-36-14 10/02/01	RFI-36-14 02/20/02	RFI-36-14 06/17/02
VOC															
1,1,1,2-Tetrachloroethane	ug/L	- -	96,000	1,100,000	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/L	- -	1,300,000	1,330,000	5 U	5 U	1 U	1 U	1 U	NA	12	11 [12]	1 U [1 U]	NA	1 U
1,1,2,2-Tetrachloroethane	ug/L	- -	77,000	2,970,000	5 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 UJ [1 UJ]	NA	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	- -	170,000	170,000	NA	200 U	30 U	30 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
1,1,2-Trichloroethane	ug/L	- -	110,000	4,420,000	5 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
1,1-Dichloroethane	ug/L	380,000	2,300,000	5,060,000	5 U	5 U	1 U	1 U	7.5	NA	4.6	4.1 [4.4]	1 U [1 U]	NA	1 U
1,1-Dichloroethene	ug/L	97,000	1,300	2,250,000	5 U	5 U	1 U	1 U	1 U	NA	1 U	1.5 [1.5]	1 U [1 U]	NA	1 U
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	30 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	ug/L	- -	18,000	1,900,000	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	- -	300,000	300,000	30 U	10 U	2 U	2 U	5 U	NA	5 U	5 U [5 U]	5 U [5 U]	NA	5 U
1,2,4-Trimethylbenzene	ug/L	56,000	56,000	55,890	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	- -	1,200	1,230	30 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
1,2-Dibromoethane	ug/L	- -	15,000	4,200,000	5 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
1,2-Dichlorobenzene	ug/L	- -	160,000	156,000	5 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
1,2-Dichloroethane	ug/L	2,500,000	59,000	8,520,000	5 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
1,2-Dichloropropane	ug/L	550,000	36,000	2,800,000	5 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
1,3,5-Trimethylbenzene	ug/L	- -	61,000	61,150	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/L	- -	41,000	111,000	5 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
1,4-Dichlorobenzene	ug/L	- -	74,000	73,800	5 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
2-Butanone	ug/L	- -	240,000,000	240,000,000	100 U	100 U	20 U	20 U	25 U	NA	25 U	25 U [25 U]	25 U [25 U]	NA	25 U
2-Hexanone	ug/L	- -	8,700,000	16,000,000	300 U	300 U	50 U	50 U	50 U	NA	50 U	50 U [50 U]	50 U [50 U]	NA	50 U
2-Methylnaphthalene	ug/L	- -	25,000	24,600	30 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	ug/L	- -	20,000,000	20,000,000	300 U	50 U	10 U	10 U	50 U	NA	50 U	50 U [50 U]	50 U [50 U]	NA	50 U
Acetone	ug/L	15,000,000	1,000,000,000	1,000,000,000	300 U	100 U	20 U	20 U	0.78 J	NA	25 U	25 U [3.8 J]	25 U [25 U]	NA	25 U
Acrylonitrile	ug/L	6,400,000	190,000	75,000,000	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/L	68,000	35,000	1,750,000	5 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
Bromobenzene	ug/L	- -	390,000	413,000	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/L	- -	37,000	6,740,000	5 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
Bromoform	ug/L	- -	3,100,000	3,100,000	5 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
Bromomethane	ug/L	- -	9,000	14,500,000	30 U	10 U	2 U	2 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
Carbon Disulfide	ug/L	13,000	550,000	1,190,000	30 U	30 U	5 U	5 U	5 U	NA	5 U	5 U [5 U]	5 U [5 U]	NA	5 U
Carbon Tetrachloride	ug/L	- -	2,400	793,000	5 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
Chlorobenzene	ug/L	160,000	470,000	472,000	5 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
Chloroethane	ug/L	110,000	5,700,000	5,740,000	30 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
Chloroform	ug/L	- -	180,000	7,920,000	5 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
Chloromethane	ug/L	36,000	45,000	6,340,000	30 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
cis-1,2-Dichloroethene	ug/L	530,000	210,000	3,500,000	5 U	5 U	1 U	1 U	1 U	NA	3	61 [65]	1 U [1 U]	NA	1 U
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	5 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
Cyclohexane	ug/L	- -	- -	- -	NA	5 U	1 U	1 U	5 U	NA	5 U	5 U [5 U]	5 U [5 U]	NA	5 U
Dibromochloromethane	ug/L	- -	110,000	2,600,000	30 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U

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Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	20-500R 10/14/10	20-500R 10/20/11	20-500R 11/07/12	20-500R 06/05/13	37-01 09/26/01	37-01 12/18/02	RFI-36-13 11/09/01	RFI-36-13 06/24/02	RFI-36-14 10/02/01	RFI-36-14 02/20/02	RFI-36-14 06/17/02
Dibromomethane	ug/L	- -	- -	11,000,000	30 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/L	- -	300,000	300,000	30 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
Diethyl ether	ug/L	650,000	61,000,000	61,000,000	50 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/L	43,000	170,000	169,000	12	10	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
Hexachloroethane	ug/L	- -	50,000	50,000	30 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	ug/L	- -	- -	- -	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	ug/L	29,000	56,000	56,000	80	123	1 U	1 U	5 U	NA	5 U	5 U [5 U]	5 U [5 U]	NA	5 U
m&p-Xylene	ug/L	- -	- -	- -	10 U	10 U	2 U	2 U	2 U	NA	2 U	2 U [2 U]	2 U [2 U]	NA	2 U
Methyl acetate	ug/L	- -	- -	- -	NA	50 U	10 U	10 U	5 U	NA	5 U	5 U [5 U]	5 U [5 U]	NA	5 U
Methyl tert-butyl ether	ug/L	- -	47,000,000	46,800,000	30 U	30 U	5 U	5 U	5 U	NA	5 U	5 U [5 U]	5 U [5 U]	NA	5 U
Methylcyclohexane	ug/L	- -	- -	- -	NA	100 U	20 U	20 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
Methylene Chloride	ug/L	- -	1,400,000	17,000,000	30 U	30 U	5 U	5 U	5 U	NA	5 U	5 U [5 U]	5 U [5 U]	NA	5 UJ
Naphthalene	ug/L	- -	31,000	31,000	30 U	30 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/L	- -	- -	- -	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	ug/L	- -	- -	- -	244	359	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
o-Xylene	ug/L	- -	- -	- -	5 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
p-Isopropyltoluene	ug/L	- -	- -	- -	30 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	ug/L	- -	- -	- -	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/L	140,000	310,000	310,000	5 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
tert-Butylbenzene	ug/L	- -	- -	- -	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/L	- -	170,000	200,000	5 U	5 U	1 U	1 U	1 U	NA	0.82 J	1.4 J [1.4 J]	1 U [1 U]	NA	1 UJ
Tetrahydrofuran	ug/L	60,000	16,000,000	1,000,000,000	500 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/L	61,000	530,000	526,000	5 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
trans-1,2-Dichloroethene	ug/L	230,000	200,000	6,300,000	5 U	5 U	1 U	1 U	1 U	NA	1 U	13 [14]	1 U [1 U]	NA	1 U
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	5 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/L	- -	4,900	1,100,000	5 U	5 U	1 U	1 U	1 U	NA	29	32 [31]	1 U [1 U]	NA	1 U
Trichlorofluoromethane	ug/L	- -	1,100,000	1,100,000	5 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
Vinyl Chloride	ug/L	33,000	13,000	2,760,000	5 U	5 U	1 U	1 U	1 U	NA	6.2	14 [14]	1 U [1 U]	NA	1 U
Xylenes (total)	ug/L	70,000	190,000	186,000	5 U	5 U	1 U	1 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	1 U
SVOC															
1,1'-Biphenyl	ug/L	- -	- -	- -	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
2,4,5-Trichlorophenol	ug/L	- -	- -	1,200,000	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
2,4,6-Trichlorophenol	ug/L	- -	- -	800,000	NA	NA	NA	NA	4.7 U	NA	4 U	NA	4.1 U [4 U]	NA	NA
2,4-Dichlorophenol	ug/L	- -	- -	4,500,000	NA	NA	NA	NA	12 U	NA	10 U	NA	10 U [10 U]	NA	NA
2,4-Dimethylphenol	ug/L	- -	- -	7,870,000	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	NA	NA	NA	NA	24 U	NA	20 U	NA	21 U [20 U]	NA	NA
2,4-Dinitrotoluene	ug/L	- -	- -	270,000	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
2-Chloronaphthalene	ug/L	- -	- -	6,740	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
2-Chlorophenol	ug/L	- -	1,100,000	22,000,000	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA

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Priority #17 - AOI 36-5 Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	20-500R 10/14/10	20-500R 10/20/11	20-500R 11/07/12	20-500R 06/05/13	37-01 09/26/01	37-01 12/18/02	RFI-36-13 11/09/01	RFI-36-13 06/24/02	RFI-36-14 10/02/01	RFI-36-14 02/20/02	RFI-36-14 06/17/02
2-Methylnaphthalene	ug/L	- -	25,000	24,600	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
2-Methylphenol	ug/L	- -	- -	- -	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
2-Nitroaniline	ug/L	- -	- -	- -	NA	NA	NA	NA	24 U	NA	20 U	NA	21 U [20 U]	NA	NA
2-Nitrophenol	ug/L	- -	- -	2,500,000	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
3&4-Methylphenol	ug/L	- -	- -	- -	NA	NA	NA	NA	12 UJ	NA	10 UJ	NA	10 UJ [10 UJ]	NA	NA
3,3'-Dichlorobenzidine	ug/L	- -	- -	3,110	NA	NA	NA	NA	24 U	NA	20 U	NA	21 U [20 U]	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	NA	NA	NA	NA	24 U	NA	20 U	NA	21 U [20 U]	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	NA	NA	NA	NA	24 UJ	NA	20 U	NA	21 U [20 U]	NA	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
4-Chloro-3-Methylphenol	ug/L	- -	- -	3,900,000	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
4-Chloroaniline	ug/L	- -	- -	- -	NA	NA	NA	NA	24 U	NA	20 U	NA	21 U [20 U]	NA	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
4-Nitroaniline	ug/L	- -	- -	- -	NA	NA	NA	NA	24 U	NA	20 U	NA	21 U [20 U]	NA	NA
4-Nitrophenol	ug/L	- -	- -	- -	NA	NA	NA	NA	24 U	NA	20 UJ	NA	21 U [20 U]	NA	NA
Acenaphthene	ug/L	- -	4,200	4,240	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
Acenaphthylene	ug/L	- -	3,900	3,930	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
Acetophenone	ug/L	- -	6,100,000	6,100,000	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
Anthracene	ug/L	- -	43	43.4	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
Atrazine	ug/L	- -	- -	70,000	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
Benzo(a)anthracene	ug/L	- -	- -	9.4	NA	NA	NA	NA	1.2 U	NA	1 U	NA	1 U [1 U]	NA	NA
Benzo(a)pyrene	ug/L	- -	- -	1.62	NA	NA	NA	NA	2.4 U	NA	2 U	NA	2.1 U [2 U]	NA	NA
Benzo(b)fluoranthene	ug/L	- -	- -	1.5	NA	NA	NA	NA	2.4 U	NA	2 U	NA	2.1 U [2 U]	NA	NA
Benzo(g,h,i)perylene	ug/L	- -	- -	0.26	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
Benzo(k)fluoranthene	ug/L	- -	- -	0.8	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000	210,000	17,200,000	NA	NA	NA	NA	1.2 U	NA	1 U	NA	1 U [1 U]	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	- -	- -	340	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
Butylbenzylphthalate	ug/L	- -	- -	2,690	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
Caprolactam	ug/L	- -	- -	5,250,000,000	NA	NA	NA	NA	12 U	NA	10 U	NA	10 U [10 U]	NA	NA
Carbazole	ug/L	- -	- -	7,480	NA	NA	NA	NA	12 U	NA	10 U	NA	10 U [10 U]	NA	NA
Chrysene	ug/L	- -	- -	1.6	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
Dibenzo(a,h)anthracene	ug/L	- -	- -	2.49	NA	NA	NA	NA	2.4 U	NA	2 U	NA	2.1 U [2 U]	NA	NA
Dibenzofuran	ug/L	- -	10,000	10,000	NA	NA	NA	NA	4.7 U	NA	4 U	NA	4.1 U [4 U]	NA	NA
Diethylphthalate	ug/L	- -	- -	1,080,000	NA	NA	NA	NA	5.9 U	NA	1.68 J	NA	5.2 U [5 U]	NA	NA
Dimethylphthalate	ug/L	- -	- -	4,190,000	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
Di-n-Butylphthalate	ug/L	- -	- -	11,200	NA	NA	NA	NA	5.9 U	NA	2.59 J	NA	5.2 U [5 U]	NA	NA
Di-n-Octylphthalate	ug/L	- -	- -	3,000	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
Fluoranthene	ug/L	- -	210	206	NA	NA	NA	NA	2.4 U	NA	2 U	NA	2.1 U [2 U]	NA	NA
Fluorene	ug/L	- -	2,000	1,980	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
Hexachlorobenzene	ug/L	- -	3,000	6,200	NA	NA	NA	NA	1.2 U	NA	1 U	NA	1 U [1 U]	NA	NA
Hexachlorobutadiene	ug/L	- -	3,200	3,230	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA

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Hexachlorocyclopentadiene	ug/L	- -	420	1,800	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
Hexachloroethane	ug/L	- -	50,000	50,000	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	- -	- -	0.022	NA	NA	NA	NA	2.4 U	NA	2 U	NA	2.1 U [2 U]	NA	NA
Isophorone	ug/L	- -	- -	12,000,000	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
Methylphenols, Total	ug/L	- -	- -	28,000,000	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
Naphthalene	ug/L	- -	31,000	31,000	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
Nitrobenzene	ug/L	- -	550,000	2,090,000	NA	NA	NA	NA	2.4 U	NA	2 U	NA	2.1 U [2 U]	NA	NA
N-Nitroso-di-n-propylamine	ug/L	- -	- -	9,890,000	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
N-Nitrosodiphenylamine	ug/L	- -	- -	35,100	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
Pentachlorophenol	ug/L	- -	- -	1,850,000	NA	NA	NA	NA	24 U	NA	20 U	NA	21 U [20 U]	NA	NA
Phenanthrene	ug/L	- -	1,000	1,000	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
Phenol	ug/L	- -	- -	82,800,000	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
Pyrene	ug/L	- -	140	135	NA	NA	NA	NA	5.9 U	NA	5 U	NA	5.2 U [5 U]	NA	NA
PCB															
Aroclor-1016	ug/L	- -	- -	- -	NA	NA	NA	NA	0.11 U	NA	0.11 U	NA	0.1 U [0.1 U]	NA	NA
Aroclor-1221	ug/L	- -	- -	- -	NA	NA	NA	NA	0.11 U	NA	0.11 U	NA	0.1 U [0.1 U]	NA	NA
Aroclor-1232	ug/L	- -	- -	- -	NA	NA	NA	NA	0.11 U	NA	0.11 U	NA	0.1 U [0.1 U]	NA	NA
Aroclor-1242	ug/L	- -	- -	- -	NA	NA	NA	NA	0.11 U	NA	0.11 U	NA	0.1 U [0.1 U]	NA	NA
Aroclor-1248	ug/L	- -	- -	- -	NA	NA	NA	NA	0.11 U	NA	0.11 U	NA	0.1 U [0.1 U]	NA	NA
Aroclor-1254	ug/L	- -	- -	- -	NA	NA	NA	NA	0.11 U	NA	0.11 U	NA	0.1 U [0.1 U]	NA	NA
Aroclor-1260	ug/L	- -	- -	- -	NA	NA	NA	NA	0.11 U	NA	0.11 U	NA	0.1 U [0.1 U]	NA	NA
Total PCBs	ug/L	- -	45	44.7	NA	NA	NA	NA	0.11 U	NA	0.11 U	NA	0.1 U [0.1 U]	NA	NA
PCB-Dissolved															
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.1 U	NA	0.1 U	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.1 U	NA	0.1 U	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.1 U	NA	0.1 U	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.1 U	NA	0.1 U	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.1 U	NA	0.1 U	NA	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.1 U	NA	0.1 U	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.1 U	NA	0.1 U	NA	NA
Total PCBs (Dissolved)	ug/L	- -	45	44.7	NA	NA	NA	NA	NA	NA	0.1 U	NA	0.1 U	NA	NA
Inorganic															
Antimony	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	1.2 U	0.7 J	1.2 U [0.34 J]	1.2 U [1.2 U]	NA	1.2 U
Arsenic	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	14	1.9	1 U [1 U]	1.4 U [1.6 J]	NA	0.48 J
Barium	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	40 J	440	540 [460]	290 J [350]	NA	110
Beryllium	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	0.4 UJ	0.4 U	0.4 U [0.4 U]	0.34 J [6.9]	NA	0.4 UJ
Cadmium	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	0.2 UJ	0.54 J	0.49 [0.48]	0.38 J [0.75]	NA	0.1 J
Chromium Total	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	0.89	1.1	0.46 J [0.4 J]	0.92 [1.6]	NA	0.48 J
Cobalt	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	7.3 J	4.9	6.9 [5.5]	2.4 [3.6]	NA	0.56
Copper	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	2.5	12	14 [8.1]	2.9 [3.8]	NA	2.8 U
Cyanide (total)	ug/L	- -	- -	- -	NA	NA	NA	NA	5 U	5 U	5 U	5 U [5 U]	1.5 J [5 U]	NA	29
Lead	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	0.59 J	0.4 U	0.093 J [0.12 J]	0.38 J [0.17 J]	NA	0.25 J

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Manganese	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	2,100	2,000	2,200 J [1,900]	1,500 J [2,500]	620	280 J
Mercury	ug/L	- -	56	56	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U [0.2 U]	NA	0.2 U
Nickel	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	10 J	15	15 [13]	11 [17]	5.5	3.3
Selenium	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	1.6 U	35 J	1.4 U [0.38 J]	0.49 J [4.8 J]	NA	3.2
Silver	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	0.4 UJ	0.61 J	0.46 UJ [0.57 UJ]	0.4 U [0.4 U]	NA	0.4 U
Thallium	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	0.22 J	0.067 J	0.2 U [0.2 U]	0.2 U [0.27 U]	NA	0.088 J
Vanadium	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	0.23 J	0.8 U	0.8 U [0.8 U]	0.8 U [0.8 U]	NA	0.8 U
Zinc	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	17 J	17	13 [12]	14 J [21]	NA	32
Inorganic-Dissolved															
Antimony (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	1.2 U	1.2 U [1.2 U]	1.2 U [1.2 U]	NA	NA
Arsenic (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	2.2 J	1 U [1 U]	1 U [1 U]	NA	NA
Barium (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	340	420 [420]	250 [240]	NA	NA
Beryllium (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.4 U	0.4 U [0.4 U]	0.4 U [0.4 U]	NA	NA
Cadmium (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.38	0.41 [0.42]	0.39 [0.37]	NA	NA
Chromium Total (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	13	0.6 U [0.65]	0.6 U [0.6 U]	NA	NA
Cobalt (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	4	5 [5.3]	2 [2.1]	NA	NA
Copper (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	5.1	5.4 [5.9]	5 U [1.8 U]	NA	NA
Cyanide (dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	1.2 J	5 U [5 U]	1.3 J [1.5 J]	NA	NA
Lead (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.4 U	0.4 U [0.4 U]	0.4 U [0.4 U]	NA	NA
Manganese (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	1,600	1,700 J [1,800 J]	1,500 [1,500]	650	NA
Mercury (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U [0.2 U]	0.2 U [0.2 U]	NA	NA
Nickel (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	13	11 [12]	7.2 [170]	5.3	NA
Selenium (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	1.4 U	1.7 [1.5]	35 [32]	NA	NA
Silver (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.4 U	0.71 UJ [0.88 J]	0.4 U [0.4 U]	NA	NA
Thallium (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U [0.2 U]	0.2 U [0.2 U]	NA	NA
Vanadium (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	2.9 J	0.8 U [0.8 U]	0.8 U [0.8 U]	NA	NA
Zinc (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	16	22 [14]	17 [14]	NA	NA
Field Parameters															
Conductivity Field	mS/cm	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH Field	s.u.	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Parameters-Filtered															
Dissolved Oxygen, Field	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table N-1

Priority #17 - AOI 36-5 Fuel Oil Area
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RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	RFI-36-14 03/25/03	RFI-36-14 10/11/04	RFI-36-14 11/02/06	RFI-36-14 10/26/07	RFI-36-14 09/15/08	RFI-36-14 09/23/09	RFI-36-14 10/27/11	RFI-36-14 11/07/12	RFI-36-14-ULF 10/02/01
VOC													
1,1,1,2-Tetrachloroethane	ug/L	- -	96,000	1,100,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/L	- -	1,300,000	1,330,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
1,1,2,2-Tetrachloroethane	ug/L	- -	77,000	2,970,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	- -	170,000	170,000	NA	30 U	30 U	30 U	30 U	30 U	30 U	30 U	NA
1,1,2-Trichloroethane	ug/L	- -	110,000	4,420,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
1,1-Dichloroethane	ug/L	380,000	2,300,000	5,060,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
1,1-Dichloroethene	ug/L	97,000	1,300	2,250,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	ug/L	- -	18,000	1,900,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	- -	300,000	300,000	NA	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA
1,2,4-Trimethylbenzene	ug/L	56,000	56,000	55,890	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	- -	1,200	1,230	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
1,2-Dibromoethane	ug/L	- -	15,000	4,200,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
1,2-Dichlorobenzene	ug/L	- -	160,000	156,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
1,2-Dichloroethane	ug/L	2,500,000	59,000	8,520,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
1,2-Dichloropropane	ug/L	550,000	36,000	2,800,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
1,3,5-Trimethylbenzene	ug/L	- -	61,000	61,150	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/L	- -	41,000	111,000	NA	1 U	1 U	1 U	1 U	0.2	1 U	1 U	NA
1,4-Dichlorobenzene	ug/L	- -	74,000	73,800	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
2-Butanone	ug/L	- -	240,000,000	240,000,000	NA	30 U	20 U	20 U	20 U	20 U	20 U	20 U	NA
2-Hexanone	ug/L	- -	8,700,000	16,000,000	NA	50 U	50 U	50 U	50 UJ	50 U	50 U	50 U	NA
2-Methylnaphthalene	ug/L	- -	25,000	24,600	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	ug/L	- -	20,000,000	20,000,000	NA	1 U	10 U	10 U	10 U	10 U	10 U	10 U	NA
Acetone	ug/L	15,000,000	1,000,000,000	1,000,000,000	NA	30 U	20 U	20 U	20 U	20 U	20 U	70	NA
Acrylonitrile	ug/L	6,400,000	190,000	75,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/L	68,000	35,000	1,750,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Bromobenzene	ug/L	- -	390,000	413,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/L	- -	37,000	6,740,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Bromoform	ug/L	- -	3,100,000	3,100,000	NA	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	NA
Bromomethane	ug/L	- -	9,000	14,500,000	NA	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	NA
Carbon Disulfide	ug/L	13,000	550,000	1,190,000	NA	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	NA
Carbon Tetrachloride	ug/L	- -	2,400	793,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Chlorobenzene	ug/L	160,000	470,000	472,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Chloroethane	ug/L	110,000	5,700,000	5,740,000	NA	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	NA
Chloroform	ug/L	- -	180,000	7,920,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Chloromethane	ug/L	36,000	45,000	6,340,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
cis-1,2-Dichloroethene	ug/L	530,000	210,000	3,500,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	NA	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	NA
Cyclohexane	ug/L	- -	- -	- -	NA	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	NA
Dibromochloromethane	ug/L	- -	110,000	2,600,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA

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Dibromomethane	ug/L	- -	- -	11,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/L	- -	300,000	300,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Diethyl ether	ug/L	650,000	61,000,000	61,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/L	43,000	170,000	169,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Hexachloroethane	ug/L	- -	50,000	50,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	ug/L	29,000	56,000	56,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
m&p-Xylene	ug/L	- -	- -	- -	NA	1 U	1 U	1 U	1 U	1 U	2 U	2 U	NA
Methyl acetate	ug/L	- -	- -	- -	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA
Methyl tert-butyl ether	ug/L	- -	47,000,000	46,800,000	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NA
Methylcyclohexane	ug/L	- -	- -	- -	NA	20 U	20 U	20 U	20 U	20 U	20 U	20 U	NA
Methylene Chloride	ug/L	- -	1,400,000	17,000,000	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NA
Naphthalene	ug/L	- -	31,000	31,000	NA	NA	NA	NA	NA	NA	5 U	5 U	NA
n-Butylbenzene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	1 U	1 U	NA
o-Xylene	ug/L	- -	- -	- -	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
p-Isopropyltoluene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/L	140,000	310,000	310,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
tert-Butylbenzene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/L	- -	170,000	200,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Tetrahydrofuran	ug/L	60,000	16,000,000	1,000,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/L	61,000	530,000	526,000	NA	1 U	1 U	1 U	1 U	0.2	1 U	1 U	NA
trans-1,2-Dichloroethene	ug/L	230,000	200,000	6,300,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/L	- -	4,900	1,100,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Trichlorofluoromethane	ug/L	- -	1,100,000	1,100,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Vinyl Chloride	ug/L	33,000	13,000	2,760,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Xylenes (total)	ug/L	70,000	190,000	186,000	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
SVOC													
1,1'-Biphenyl	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	- -	- -	1,200,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	- -	- -	800,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	- -	- -	4,500,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	- -	- -	7,870,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	- -	- -	270,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	- -	- -	6,740	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	- -	1,100,000	22,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA

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2-Methylnaphthalene	ug/L	- -	25,000	24,600	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	- -	- -	2,500,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	- -	- -	3,110	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	ug/L	- -	- -	3,900,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	- -	4,200	4,240	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	- -	3,900	3,930	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	- -	6,100,000	6,100,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	- -	43	43.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	- -	- -	70,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	- -	- -	9.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	- -	- -	1.62	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	- -	- -	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	- -	- -	0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	- -	- -	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000	210,000	17,200,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	- -	- -	340	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	ug/L	- -	- -	2,690	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	- -	- -	5,250,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	- -	- -	7,480	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	- -	- -	1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/L	- -	- -	2.49	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	- -	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	ug/L	- -	- -	1,080,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	ug/L	- -	- -	4,190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	ug/L	- -	- -	11,200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	ug/L	- -	- -	3,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	- -	210	206	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	- -	2,000	1,980	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/L	- -	3,000	6,200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	- -	3,200	3,230	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Hexachlorocyclopentadiene	ug/L	- -	420	1,800	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	- -	50,000	50,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	- -	- -	0.022	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	- -	- -	12,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenols, Total	ug/L	- -	- -	28,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	- -	31,000	31,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	- -	550,000	2,090,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	ug/L	- -	- -	9,890,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	- -	- -	35,100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	- -	- -	1,850,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	- -	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	- -	- -	82,800,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	- -	140	135	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB													
Aroclor-1016	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/L	- -	45	44.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved													
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (Dissolved)	ug/L	- -	45	44.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic													
Antimony	ug/L	- -	- -	- -	1.2 U [1.2 U]	NA	NA	NA	NA	NA	NA	NA	2.1 U
Arsenic	ug/L	- -	- -	- -	3.8 [3.5]	NA	NA	NA	NA	NA	NA	NA	1.8 U
Barium	ug/L	- -	- -	- -	26 [26]	NA	NA	NA	NA	NA	NA	NA	560 J
Beryllium	ug/L	- -	- -	- -	0.4 U [0.4 U]	1 U	NA	NA	NA	NA	NA	NA	0.4 U
Cadmium	ug/L	- -	- -	- -	0.2 U [0.2 U]	NA	NA	NA	NA	NA	NA	NA	0.72 J
Chromium Total	ug/L	- -	- -	- -	0.77 [0.85]	NA	NA	NA	NA	NA	NA	NA	1.1 J
Cobalt	ug/L	- -	- -	- -	1.9 [1.8]	NA	NA	NA	NA	NA	NA	NA	5 J
Copper	ug/L	- -	- -	- -	2.3 [2.4]	NA	NA	NA	NA	NA	NA	NA	27 J
Cyanide (total)	ug/L	- -	- -	- -	3 J [3.3 J]	NA	NA	NA	NA	NA	NA	NA	1.2 J
Lead	ug/L	- -	- -	- -	0.4 U [0.34 J]	NA	NA	NA	NA	NA	NA	NA	0.54 J

Table N-1

Priority #17 - AOI 36-5 Fuel Oil Area
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	NGVIA (2013)	WS (2013)	RFI-36-14 03/25/03	RFI-36-14 10/11/04	RFI-36-14 11/02/06	RFI-36-14 10/26/07	RFI-36-14 09/15/08	RFI-36-14 09/23/09	RFI-36-14 10/27/11	RFI-36-14 11/07/12	RFI-36-14-ULF 10/02/01
Manganese	ug/L	- -	- -	- -	720 [720]	683	NA	NA	NA	NA	NA	NA	3,700 J
Mercury	ug/L	- -	56	56	0.2 U [0.2 U]	NA	NA	NA	NA	NA	NA	NA	0.2 U
Nickel	ug/L	- -	- -	- -	11 [11]	12	NA	NA	NA	NA	NA	NA	21 J
Selenium	ug/L	- -	- -	- -	1.6 U [1.6 U]	NA	NA	NA	NA	NA	NA	NA	2.8 U
Silver	ug/L	- -	- -	- -	0.37 J [0.12 J]	NA	NA	NA	NA	NA	NA	NA	1.5 J
Thallium	ug/L	- -	- -	- -	0.052 J [0.2 U]	NA	NA	NA	NA	NA	NA	NA	0.24 J
Vanadium	ug/L	- -	- -	- -	0.12 J [0.8 U]	NA	NA	NA	NA	NA	NA	NA	0.8 U
Zinc	ug/L	- -	- -	- -	8.3 [8.9]	NA	NA	NA	NA	NA	NA	NA	32 J
Inorganic-Dissolved													
Antimony (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	ug/L	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Parameters													
Conductivity Field	mS/cm	- -	- -	- -	NA	NA	NA	NA	4.471	6.61	NA	NA	NA
ORP, Field	millivolts	- -	- -	- -	NA	NA	NA	NA	6.6	143.3	NA	NA	NA
pH Field	s.u.	- -	- -	- -	NA	NA	NA	NA	6.89	7.41	NA	NA	NA
Temperature, Ambient	deg f	- -	- -	- -	NA	NA	NA	NA	65	74	NA	NA	NA
Temperature, Field	Deg C	- -	- -	- -	NA	NA	NA	NA	17.56	16.78	NA	NA	NA
Turbidity (Field)	NTU	- -	- -	- -	NA	NA	NA	NA	2.7	0.66	NA	NA	NA
Field Parameters-Filtered													
Dissolved Oxygen, Field	ug/L	- -	- -	- -	NA	NA	NA	NA	950	820	NA	NA	NA

Table N-2

Priority #17 - AOI 36-5 Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-13 1 - 3 07/27/01	RFI-36-13 5 - 7 07/27/01	RFI-36-13 9 - 11 07/27/01	RFI-36-14 0 - 2 07/16/01	RFI-36-14 6 - 8 07/16/01	SB-36-5-01 0.5 - 2 09/13/13
VOC													
1,1,1,2-Tetrachloroethane	mg/kg	440	2,200	530,000	33	120	- -	NA	NA	NA	NA	NA	0.1 U
1,1,1-Trichloroethane	mg/kg	460	1,000,000	29,000,000	460	4,500	- -	0.039 U	0.042 U	0.042 U	0.039 U	0.041 U	0.06 U
1,1,2,2-Tetrachloroethane	mg/kg	870	240	68,000	23	34	- -	0.077 U	0.084 U	0.084 U	0.078 U	0.083 U	0.06 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1,000,000	2,300,000,000	9,300	210,000	- -	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U	NA
1,1,2-Trichloroethane	mg/kg	920	840	250,000	24	57	- -	0.039 U	0.042 U	0.042 U	0.039 U	0.041 U	0.06 U
1,1-Dichloroethane	mg/kg	890	87,000	15,000,000	430	2,500	- -	0.039 U	0.042 U	0.042 U	0.039 U	0.041 U	0.06 U
1,1-Dichloroethene	mg/kg	570	660	78,000	0.33	3.7	- -	0.039 U	0.042 U	0.042 U	0.039 U	0.041 U	0.06 U
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.42 U
1,2,3-Trichloropropane	mg/kg	830	4,200	8,800	7.5	11	- -	NA	NA	NA	NA	NA	0.1 U
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.1 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800	11,000,000	18,000	34,000	- -	0.17 UJ	0.18 U	0.18 UJ	0.17 U	0.18 U	0.42 U
1,2,4-Trimethylbenzene	mg/kg	110	100,000	36,000,000	8,000	25,000	- -	NA	NA	NA	NA	NA	0.1 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	20	700	1.2	0.9	- -	0.17 U	0.18 U	0.18 U	0.17 UJ	0.18 UJ	0.3 U
1,2-Dibromoethane	mg/kg	890	0.43	18,000	3.6	5.8	- -	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U	0.03 UM
1,2-Dichlorobenzene	mg/kg	210	63,000	44,000,000	20,000	46,000	- -	0.077 U	0.084 U	0.084 U	0.078 U	0.083 U	0.1 U
1,2-Dichloroethane	mg/kg	1,200	420	150,000	11	21	- -	0.039 U	0.042 U	0.042 U	0.039 U	0.041 U	0.06 U
1,2-Dichloropropane	mg/kg	550	660	120,000	7.4	30	- -	0.039 U	0.042 U	0.042 U	0.039 U	0.041 U	0.06 U
1,3,5-Trimethylbenzene	mg/kg	94	100,000	36,000,000	4,800	19,000	- -	NA	NA	NA	NA	NA	0.1 U
1,3-Dichlorobenzene	mg/kg	170	660	88,000	48	94	- -	0.077 U	0.084 U	0.084 U	0.078 U	0.083 U	0.1 U
1,4-Dichlorobenzene	mg/kg	- -	1,900	570,000	100	260	- -	0.077 U	0.084 U	0.084 U	0.078 U	0.083 U	0.1 U
2-Butanone	mg/kg	27,000	700,000	29,000,000	99,000	35,000	- -	0.28 U	0.3 U	0.3 U	0.28 U	0.3 U	0.96 U
2-Hexanone	mg/kg	2,500	100,000	1,200,000	1,800	1,300	- -	0.28 U	0.3 U	0.3 U	0.28 U	0.3 U	3 U
2-Methylnaphthalene	mg/kg	- -	26,000	290,000	4,900	1,800	- -	NA	NA	NA	NA	NA	0.42 U
4-Methyl-2-pentanone	mg/kg	2,700	180,000	60,000,000	69,000	53,000	- -	0.28 U	0.3 U	0.3 U	0.28 U	0.3 U	3 U
Acetone	mg/kg	110,000	73,000	170,000,000	540,000	160,000	- -	0.28 UJ	0.3 U	0.3 UJ	0.28 U	0.3 U	1 U
Acrylonitrile	mg/kg	8,300	74	58,000	35	17	- -	NA	NA	NA	NA	NA	0.1 U
Benzene	mg/kg	400	840	470,000	8.4	45	- -	0.039 U	0.042 U	0.042 U	0.039 U	0.041 U	0.06 U
Bromobenzene	mg/kg	760	1,700	240,000	580	540	- -	NA	NA	NA	NA	NA	0.1 U
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.1 U
Bromodichloromethane	mg/kg	1,500	490	110,000	6.4	31	- -	0.077 U	0.084 U	0.084 U	0.078 U	0.083 U	0.1 U
Bromoform	mg/kg	870	3,800	3,600,000	770	3,100	- -	0.077 U	0.084 U	0.084 U	0.078 U	0.083 U	0.1 U
Bromomethane	mg/kg	2,200	1,000	150,000	1.6	13	- -	0.17 U	0.18 UJ	0.18 U	0.17 U	0.18 U	0.3 U
Carbon Disulfide	mg/kg	280	43,000	21,000,000	140	1,600	- -	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U	0.3 U
Carbon Tetrachloride	mg/kg	390	440	170,000	0.99	12	- -	0.039 U	0.042 U	0.042 U	0.039 U	0.041 U	0.06 U
Chlorobenzene	mg/kg	260	14,000	2,100,000	220	920	- -	0.039 U	0.042 U	0.042 U	0.039 U	0.041 U	0.06 U
Chloroethane	mg/kg	950	12,000	290,000,000	5,300	36,000	- -	0.17 U	0.18 UJ	0.18 U	0.17 U	0.18 U	0.3 U
Chloroform	mg/kg	1,500	5,500	1,600,000	38	150	- -	0.039 U	0.042 U	0.042 U	0.039 U	0.041 U	0.06 U
Chloromethane	mg/kg	1,100	7,400	2,600,000	10	120	- -	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U	0.3 U
cis-1,2-Dichloroethene	mg/kg	640	8,000	1,000,000	41	210	- -	0.039 U	0.042 U	0.042 U	0.039 U	0.041 U	0.06 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.039 U	0.042 U	0.042 U	0.039 U	0.041 U	0.06 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U	NA
Dibromochloromethane	mg/kg	610	500	160,000	21	80	- -	0.077 U	0.084 U	0.084 U	0.078 U	0.083 U	0.1 U
Dibromomethane	mg/kg	2,000	8,000	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.3 U
Dichlorodifluoromethane	mg/kg	1,000	170,000	1,500,000,000	1,700	63,000	- -	0.077 U	0.084 U	0.084 U	0.078 U	0.083 U	0.3 U
Diethyl ether	mg/kg	7,400	360,000	350,000,000	52,000	100,000	- -	NA	NA	NA	NA	NA	0.3 U
Ethylbenzene	mg/kg	140	71,000	13,000,000	460	2,400	- -	0.039 U	0.042 U	0.042 U	0.039 U	0.041 U	0.06 U
Hexachloroethane	mg/kg	- -	730	100,000	79	660	- -	NA	NA	NA	NA	NA	0.4 U
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.1 U
Isopropylbenzene	mg/kg	390	80,000	2,600,000	730	2,000	- -	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U	0.3 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.05 J	0.084 U	0.084 U	0.078 U	0.083 U	0.1 U

Table N-2

Priority #17 - AOI 36-5 Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-13 1 - 3 07/27/01	RFI-36-13 5 - 7 07/27/01	RFI-36-13 9 - 11 07/27/01	RFI-36-14 0 - 2 07/16/01	RFI-36-14 6 - 8 07/16/01	SB-36-5-01 0.5 - 2 09/13/13
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	0.061 J	0.08 J	0.18 U	0.031 J	0.18 U	NA
Methyl tert-butyl ether	mg/kg	5,900	7,100	88,000,000	18,000	30,000	- -	0.28 U	0.3 U	0.3 U	0.28 U	0.3 U	0.3 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	0.13 J	0.18 U	0.18 U	0.17 U	0.18 U	NA
Methylene Chloride	mg/kg	2,300	5,800	8,300,000	240	700	- -	0.17 U	0.18 U	0.18 U	0.17 UJ	0.18 UJ	0.1 U
Naphthalene	mg/kg	- -	52,000	88,000	470	350	- -	NA	NA	NA	NA	NA	0.42 U
n-Butylbenzene	mg/kg	10,000	8,000	880,000	- -	- -	- -	NA	NA	NA	NA	NA	0.06 U
n-Propylbenzene	mg/kg	10,000	8,000	590,000	- -	- -	- -	NA	NA	NA	NA	NA	0.1 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	0.032 J	0.042 U	0.042 U	0.039 U	0.041 U	0.06 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.1 U
sec-Butylbenzene	mg/kg	10,000	8,000	180,000	- -	- -	- -	NA	NA	NA	NA	NA	0.06 U
Styrene	mg/kg	520	1,900	6,900,000	1,300	3,300	- -	0.039 U	0.042 U	0.042 U	0.039 U	0.041 U	0.06 U
tert-Butylbenzene	mg/kg	10,000	8,000	290,000	- -	- -	- -	NA	NA	NA	NA	NA	0.06 U
Tetrachloroethene	mg/kg	88	930	1,200,000	21	210	- -	0.039 U	0.042 UJ	0.042 U	0.039 U	0.041 U	0.06 U
Tetrahydrofuran	mg/kg	120,000	9,500	170,000,000	2,400	15,000	- -	NA	NA	NA	NA	NA	1 U
Toluene	mg/kg	250	160,000	12,000,000	610	3,300	- -	0.033 J	0.042 U	0.042 U	0.039 U	0.041 U	0.1 U
trans-1,2-Dichloroethene	mg/kg	1,400	12,000	2,100,000	43	330	- -	0.039 U	0.042 U	0.042 U	0.039 U	0.041 U	0.06 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	0.039 U	0.042 U	0.042 U	0.039 U	0.041 U	0.06 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.06 U
Trichloroethene	mg/kg	500	660	59,000	1.9	14	- -	0.039 U	0.03 J	0.042 U	0.039 U	0.041 U	0.06 U
Trichlorofluoromethane	mg/kg	560	260,000	1,700,000,000	5,100	110,000	- -	0.077 U	0.084 U	0.084 U	0.078 U	0.083 U	0.1 U
Vinyl Chloride	mg/kg	490	34	890,000	2.8	29	- -	0.039 U	0.042 U	0.042 U	0.039 U	0.041 U	0.06 U
Xylenes (total)	mg/kg	150	1,000,000	130,000,000	12,000	54,000	- -	0.032 J	0.042 U	0.042 U	0.039 U	0.041 U	0.06 U
SVOC													
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5,800	11,000,000	18,000	34,000	- -	NA	NA	NA	NA	NA	0.562 UX
1,2-Dichlorobenzene	mg/kg	210	63,000	44,000,000	20,000	46,000	- -	NA	NA	NA	NA	NA	0.562 UX
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.562 UX
1,3-Dichlorobenzene	mg/kg	170	660	88,000	48	94	- -	NA	NA	NA	NA	NA	0.562 UX
1,4-Dichlorobenzene	mg/kg	- -	1,900	570,000	100	260	- -	NA	NA	NA	NA	NA	0.562 UX
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
2,4,5-Trichlorophenol	mg/kg	- -	73,000	10,000,000	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
2,4,6-Trichlorophenol	mg/kg	- -	3,300	1,300,000	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
2,4-Dichlorophenol	mg/kg	1,800	3,900	2,300,000	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
2,4-Dimethylphenol	mg/kg	- -	36,000	2,100,000	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.73 U	0.8 U	0.81 U	0.76 U	0.79 U	0.83 U
2,4-Dinitrotoluene	mg/kg	- -	220	20,000	- -	- -	- -	0.73 U	0.8 U	0.81 U	0.76 U	0.79 U	0.562 UX
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
2-Chloronaphthalene	mg/kg	- -	180,000	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
2-Chlorophenol	mg/kg	19,000	4,500	530,000	800	1,100	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
2-Methylnaphthalene	mg/kg	- -	26,000	290,000	4,900	1,800	- -	0.209	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.73 U	0.8 U	0.81 U	0.76 U	0.79 U	0.83 U
2-Nitrophenol	mg/kg	- -	2,000	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	0.37 UJ	0.41 UJ	0.41 UJ	0.38 UJ	0.4 UJ	0.562 UX
3,3'-Dichlorobenzidine	mg/kg	- -	30	8,200	- -	- -	- -	0.73 U	0.8 U	0.81 U	0.76 UJ	0.79 U	2 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.73 U	0.8 U	0.81 U	0.76 U	0.79 U	0.83 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	260	59,000	- -	- -	- -	0.73 U	0.8 U	0.81 U	0.76 UJ	0.79 U	0.83 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.19 UJ	0.2 U	0.562 UX
4-Chloro-3-Methylphenol	mg/kg	- -	15,000	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.73 U	0.8 U	0.81 U	0.76 U	0.79 U	0.562 UX
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	0.73 UJ	0.8 UJ	0.81 UJ	0.76 U	0.79 U	0.562 UX

Table N-2

Priority #17 - AOI 36-5 Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-13 1 - 3 07/27/01	RFI-36-13 5 - 7 07/27/01	RFI-36-13 9 - 11 07/27/01	RFI-36-14 0 - 2 07/16/01	RFI-36-14 6 - 8 07/16/01	SB-36-5-01 0.5 - 2 09/13/13
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	0.73 U	0.8 U	0.81 U	0.76 U	0.79 U	0.83 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	0.73 U	0.8 U	0.81 U	0.76 U	0.79 U	0.83 U
Acenaphthene	mg/kg	- -	130,000	6,200,000	350,000	97,000	- -	0.16 J	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
Acenaphthylene	mg/kg	- -	5,200	1,000,000	3,000	2,700	- -	0.285	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
Acetophenone	mg/kg	1,100	150,000	14,000,000	210,000	52,000	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	NA
Anthracene	mg/kg	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.706	0.2 U	0.21 U	0.0463 J	0.2 U	0.562 UX
Atrazine	mg/kg	- -	330	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.19 UJ	0.2 U	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.19 UJ	0.2 UJ	NA
Benzo(a)anthracene	mg/kg	- -	80	- -	- -	- -	- -	2.58	0.2 U	0.21 U	0.175 J	0.2 U	0.562 UX
Benzo(a)pyrene	mg/kg	- -	8	1,900	- -	- -	- -	2.81 J	0.2 U	0.21 U	0.285 J	0.2 U	0.562 UX
Benzo(b)fluoranthene	mg/kg	- -	80	- -	- -	- -	- -	3.29 J	0.2 U	0.21 U	0.32 J	0.2 U	0.562 UX
Benzo(g,h,i)perylene	mg/kg	- -	7,000	350,000	- -	- -	- -	1.42 J	0.2 U	0.21 U	0.5 J	0.2 U	0.562 UX
Benzo(k)fluoranthene	mg/kg	- -	800	- -	- -	- -	- -	2.53 J	0.2 U	0.21 U	0.238 J	0.2 U	0.562 UX
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
bis(2-Chloroethyl)ether	mg/kg	2,200	58	12,000	44	13	- -	0.036 U	0.039 U	0.04 U	0.037 U	0.039 U	0.562 UX
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	12,000	890,000	- -	- -	- -	0.0596 J	0.2 U	0.21 U	8.75 D	0.109 J	0.562 UX
Butylbenzylphthalate	mg/kg	310	120,000	21,000,000	- -	- -	- -	0.19 U	0.2 U	0.21 U	5.94 D	0.2 U	0.562 UX
Caprolactam	mg/kg	- -	310,000	290,000	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	NA
Carbazole	mg/kg	- -	2,400	78,000	- -	- -	- -	0.133 J	0.2 U	0.21 U	0.19 UJ	0.2 U	NA
Chrysene	mg/kg	- -	8,000	- -	- -	- -	- -	2.66	0.2 U	0.21 U	0.241 J	0.2 U	0.685 X
Dibenzo(a,h)anthracene	mg/kg	- -	8	- -	- -	- -	- -	0.19 UJ	0.2 U	0.21 U	0.19 UJ	0.2 U	0.562 UX
Dibenzofuran	mg/kg	- -	- -	2,900	3,600	160	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
Diethylphthalate	mg/kg	740	550,000	1,500,000	- -	- -	- -	0.0563 J	0.2 U	0.21 U	0.148 J	0.2 U	0.562 UX
Dimethylphthalate	mg/kg	790	1,000,000	1,500,000	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
Di-n-Butylphthalate	mg/kg	760	87,000	1,500,000	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.158 J	0.2 U	0.562 UX
Di-n-Octylphthalate	mg/kg	140,000	20,000	14,000,000	- -	- -	- -	0.19 UJ	0.2 U	0.21 U	0.19 UJ	0.2 U	0.562 UX
Fluoranthene	mg/kg	- -	130,000	4,100,000	1,000,000	890,000	- -	3.77	0.2 U	0.21 U	0.255 J	0.2 U	0.809 X
Fluorene	mg/kg	- -	87,000	4,100,000	1,000,000	150,000	- -	0.416	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
Hexachlorobenzene	mg/kg	- -	37	8,500	220	56	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
Hexachlorobutadiene	mg/kg	350	470	180,000	710	460	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
Hexachlorocyclopentadiene	mg/kg	720	6,700	5,900	56	60	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
Hexachloroethane	mg/kg	- -	730	100,000	79	660	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
Indeno(1,2,3-cd)pyrene	mg/kg	- -	80	- -	- -	- -	- -	1.3 J	0.2 U	0.21 U	0.386 J	0.2 U	0.562 UX
Isophorone	mg/kg	2,400	22,000	8,200,000	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
Methylphenols, Total	mg/kg	- -	36,000	2,900,000	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	0.562 U
Naphthalene	mg/kg	- -	52,000	88,000	470	350	- -	0.114 J	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
Nitrobenzene	mg/kg	490	340	21,000	170	64	- -	0.073 U	0.08 U	0.081 U	0.076 U	0.079 U	0.562 UX
N-Nitroso-di-n-propylamine	mg/kg	1,500	5.4	2,000	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
N-Nitrosodiphenylamine	mg/kg	- -	7,800	2,800,000	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.19 UJ	0.2 U	1.1 UX
Pentachlorophenol	mg/kg	- -	320	130,000	- -	- -	- -	0.73 U	0.8 U	0.81 U	0.76 UJ	0.79 U	0.562 UX
Phenanthrene	mg/kg	- -	5,200	2,900	5,100	190	- -	2.71	0.2 U	0.21 U	0.155 J	0.2 U	0.685 X
Phenol	mg/kg	12,000	230,000	18,000,000	- -	- -	- -	0.19 U	0.2 U	0.21 U	0.19 U	0.2 U	0.562 UX
Pyrene	mg/kg	- -	84,000	2,900,000	1,000,000	780,000	- -	3.93 D	0.2 U	0.21 U	0.471 J	0.2 U	0.876 X
PCB													
Aroclor-1016	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.042 U	0.042 U	0.04 U	0.041 U	NA
Aroclor-1221	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.042 U	0.042 U	0.04 U	0.041 U	NA
Aroclor-1232	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.042 U	0.042 U	0.04 U	0.041 U	NA
Aroclor-1242	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.042 U	0.042 U	0.04 U	0.041 U	NA
Aroclor-1248	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.042 U	0.042 U	0.04 U	0.041 U	NA
Aroclor-1254	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.042 U	0.042 U	0.04 U	0.041 U	NA
Aroclor-1260	mg/kg	- -	16	- -	- -	- -	- -	0.038 U	0.042 U	0.042 U	0.028 J	0.041 U	NA

Table N-2

Priority #17 - AOI 36-5 Fuel Oil Area
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft.): Date Collected:	Units	CSAT (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-36-13 1 - 3 07/27/01	RFI-36-13 5 - 7 07/27/01	RFI-36-13 9 - 11 07/27/01	RFI-36-14 0 - 2 07/16/01	RFI-36-14 6 - 8 07/16/01	SB-36-5-01 0.5 - 2 09/13/13
Total PCBs	mg/kg	- -	16	6,500	16,000	810	- -	0.038 U	0.042 U	0.042 U	0.028 J	0.041 U	NA
Inorganic													
Antimony	mg/kg	- -	670	5,900	- -	- -	- -	0.16 J	0.21 UJ	0.24 UJ	0.056 J	R	0.5 U
Arsenic	mg/kg	- -	37	910	- -	- -	5.8	4.1	2.8	3.4	5.8	5.2	1.92
Barium	mg/kg	- -	130,000	150,000	- -	- -	75	34 J	42 J	6.3 J	**110 (SDBL (2013))**	19	53.7
Beryllium	mg/kg	- -	1,600	590	- -	- -	- -	0.38	0.3	0.12	0.34	0.16	0.2 U
Cadmium	mg/kg	- -	2,100	2,200	- -	- -	1.2	0.18	0.068	0.063	**1.4 (SDBL (2013))**	0.083	0.34
Chromium Total	mg/kg	- -	- -	- -	- -	- -	18	**22 J (SDBL (2013))**	10 J	4 J	**81 (SDBL (2013))**	6.9	**46.5 (SDBL (2013))**
Cobalt	mg/kg	- -	9,000	5,900	- -	- -	6.8	3.3	3.7	2.2	4.2	2.7	3.16
Copper	mg/kg	- -	73,000	59,000	- -	- -	32	19 J	4.6 J	3.9 J	**100 (SDBL (2013))**	8.7	**69 (SDBL (2013))**
Cyanide (total)	mg/kg	- -	250	250	- -	- -	0.39	0.2 U	0.2 U	0.2 U	**0.5 (SDBL (2013))**	0.2 U	**0.45 (SDBL (2013))**
Lead	mg/kg	- -	900	44,000	- -	- -	21	**94 (SDBL (2013))**	7.4	2.6	**120 (SDBL (2013))**	4.8	**305 (SDBL (2013))**
Manganese	mg/kg	- -	90,000	1,500	- -	- -	440	260	72	92	**750 J (SDBL (2013))**	150 J	321
Mercury	mg/kg	- -	580	8,800	89	62	0.13	0.0367 J	0.0233 J	0.08 U	0.106	0.0271 J	0.058
Nickel	mg/kg	- -	150,000	16,000	- -	- -	20	13 J	7.6 J	5 J	**31 (SDBL (2013))**	8.3	**97.9 (SDBL (2013))**
Selenium	mg/kg	- -	9,600	59,000	- -	- -	0.41	**0.43 (SDBL (2013))**	0.13	0.19	**0.88 (SDBL (2013))**	**0.48 (SDBL (2013))**	0.5 U
Silver	mg/kg	- -	9,000	2,900	- -	- -	1	0.031 J	0.0081 J	0.23 U	0.31	0.053 J	0.2 U
Thallium	mg/kg	- -	130	5,900	- -	- -	- -	0.13 J	0.15 J	0.069 J	0.2 J	0.081 J	0.5 U
Vanadium	mg/kg	- -	5,500	- -	- -	- -	- -	13	20	6.8	14	13	4.13
Zinc	mg/kg	- -	630,000	- -	- -	- -	47	29	29	16	**180 (SDBL (2013))**	33	32.6
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	916,000	837,000	825,000	885,000	852,000	890,000

Table N-3

Priority #17 - AOI 36-5 Fuel Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	20-503 09/17/02	20-503 04/02/03	20-503 05/19/03
VOC				
1,1,1-Trichloroethane	mg/kg	NA	1.3 U	NA
1,1,2,2-Tetrachloroethane	mg/kg	NA	1.3 U	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	NA	6.3 U	NA
1,1,2-Trichloroethane	mg/kg	NA	1.3 U	NA
1,1-Dichloroethane	mg/kg	NA	1.3 U	NA
1,1-Dichloroethene	mg/kg	NA	1.3 U	NA
1,2,4-Trichlorobenzene	mg/kg	NA	1.3 U	NA
1,2-Dibromo-3-chloropropane	mg/kg	NA	1.3 UJ	NA
1,2-Dibromoethane	mg/kg	NA	1.3 U	NA
1,2-Dichlorobenzene	mg/kg	NA	1.3 U	NA
1,2-Dichloroethane	mg/kg	NA	1.3 U	NA
1,2-Dichloropropane	mg/kg	NA	1.3 U	NA
1,3-Dichlorobenzene	mg/kg	NA	1.3 U	NA
1,4-Dichlorobenzene	mg/kg	NA	1.3 U	NA
2-Butanone	mg/kg	NA	6.3 UJ	NA
2-Hexanone	mg/kg	NA	6.3 U	NA
4-Methyl-2-pentanone	mg/kg	NA	6.3 U	NA
Acetone	mg/kg	NA	6.3 U	NA
Benzene	mg/kg	NA	1.3 U	NA
Bromodichloromethane	mg/kg	NA	1.3 U	NA
Bromoform	mg/kg	NA	1.3 U	NA
Bromomethane	mg/kg	NA	1.3 U	NA
Carbon Disulfide	mg/kg	NA	1.3 U	NA
Carbon Tetrachloride	mg/kg	NA	1.3 U	NA
Chlorobenzene	mg/kg	NA	1.3 U	NA
Chloroethane	mg/kg	NA	1.3 U	NA
Chloroform	mg/kg	NA	1.3 U	NA
Chloromethane	mg/kg	NA	1.3 U	NA
cis-1,2-Dichloroethene	mg/kg	NA	0.89 J	NA
cis-1,3-Dichloropropene	mg/kg	NA	1.3 U	NA
Cyclohexane	mg/kg	NA	1.9 J	NA
Dibromochloromethane	mg/kg	NA	1.3 U	NA
Dichlorodifluoromethane	mg/kg	NA	1.3 U	NA
Ethylbenzene	mg/kg	NA	12	NA
Isopropylbenzene	mg/kg	NA	4.4	NA
m&p-Xylene	mg/kg	NA	35	NA
Methyl acetate	mg/kg	NA	6.3 UJ	NA
Methyl tert-butyl ether	mg/kg	NA	1.3 U	NA
Methylcyclohexane	mg/kg	NA	7.8	NA
Methylene Chloride	mg/kg	NA	1.9 J	NA
o-Xylene	mg/kg	NA	15	NA
Styrene	mg/kg	NA	1.3 U	NA
Tetrachloroethene	mg/kg	NA	1.3 U	NA
Toluene	mg/kg	NA	0.99 J	NA
trans-1,2-Dichloroethene	mg/kg	NA	1.3 U	NA
trans-1,3-Dichloropropene	mg/kg	NA	1.3 U	NA
Trichloroethene	mg/kg	NA	1.5	NA
Trichlorofluoromethane	mg/kg	NA	1.3 U	NA
Vinyl Chloride	mg/kg	NA	1.3 U	NA

Table N-3

Priority #17 - AOI 36-5 Fuel Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	20-503 09/17/02	20-503 04/02/03	20-503 05/19/03
Xylenes (total)	mg/kg	NA	15	NA
SVOC				
1,1'-Biphenyl	mg/kg	NA	280 J	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	NA	490 U	NA
2,4,5-Trichlorophenol	mg/kg	NA	490 U	NA
2,4,6-Trichlorophenol	mg/kg	NA	490 U	NA
2,4-Dichlorophenol	mg/kg	NA	490 U	NA
2,4-Dimethylphenol	mg/kg	NA	490 U	NA
2,4-Dinitrophenol	mg/kg	NA	2,000 U	NA
2,4-Dinitrotoluene	mg/kg	NA	490 U	NA
2,6-Dinitrotoluene	mg/kg	NA	490 U	NA
2-Chloronaphthalene	mg/kg	NA	490 U	NA
2-Chlorophenol	mg/kg	NA	490 U	NA
2-Methylnaphthalene	mg/kg	NA	190 J	NA
2-Methylphenol	mg/kg	NA	490 U	NA
2-Nitroaniline	mg/kg	NA	2,000 U	NA
2-Nitrophenol	mg/kg	NA	490 U	NA
3&4-Methylphenol	mg/kg	NA	990 UJ	NA
3,3'-Dichlorobenzidine	mg/kg	NA	2,000 UJ	NA
3-Nitroaniline	mg/kg	NA	2,000 U	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	2,000 U	NA
4-Bromophenyl-phenylether	mg/kg	NA	490 U	NA
4-Chloro-3-Methylphenol	mg/kg	NA	490 U	NA
4-Chloroaniline	mg/kg	NA	2,000 U	NA
4-Chlorophenyl-phenylether	mg/kg	NA	490 U	NA
4-Nitroaniline	mg/kg	NA	2,000 U	NA
4-Nitrophenol	mg/kg	NA	2,000 U	NA
Acenaphthene	mg/kg	NA	490 U	NA
Acenaphthylene	mg/kg	NA	490 U	NA
Acetophenone	mg/kg	NA	490 U	NA
Anthracene	mg/kg	NA	490 U	NA
Atrazine	mg/kg	NA	490 U	NA
Benzaldehyde	mg/kg	NA	490 UJ	NA
Benzo(a)anthracene	mg/kg	NA	490 U	NA
Benzo(a)pyrene	mg/kg	NA	490 U	NA
Benzo(b)fluoranthene	mg/kg	NA	490 U	NA
Benzo(g,h,i)perylene	mg/kg	NA	490 U	NA
Benzo(k)fluoranthene	mg/kg	NA	490 U	NA
bis(2-Chloroethoxy)methane	mg/kg	NA	490 U	NA
bis(2-Chloroethyl)ether	mg/kg	NA	490 U	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	490 U	NA
Butylbenzylphthalate	mg/kg	NA	490 U	NA
Caprolactam	mg/kg	NA	490 U	NA
Carbazole	mg/kg	NA	490 U	NA
Chrysene	mg/kg	NA	490 U	NA
Dibenzo(a,h)anthracene	mg/kg	NA	490 U	NA
Dibenzofuran	mg/kg	NA	490 U	NA
Diethylphthalate	mg/kg	NA	490 U	NA
Dimethylphthalate	mg/kg	NA	490 U	NA
Di-n-Butylphthalate	mg/kg	NA	490 U	NA
Di-n-Octylphthalate	mg/kg	NA	490 U	NA

Table N-3

Priority #17 - AOI 36-5 Fuel Oil Area
Summary of LNAPL Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	20-503 09/17/02	20-503 04/02/03	20-503 05/19/03
Fluoranthene	mg/kg	NA	490 U	NA
Fluorene	mg/kg	NA	490 U	NA
Hexachlorobenzene	mg/kg	NA	490 U	NA
Hexachlorobutadiene	mg/kg	NA	490 U	NA
Hexachlorocyclopentadiene	mg/kg	NA	490 U	NA
Hexachloroethane	mg/kg	NA	490 U	NA
Indeno(1,2,3-cd)pyrene	mg/kg	NA	490 U	NA
Isophorone	mg/kg	NA	490 U	NA
Methylphenols, Total	mg/kg	NA	490 U	NA
Naphthalene	mg/kg	NA	490 U	NA
Nitrobenzene	mg/kg	NA	490 U	NA
N-Nitroso-di-n-propylamine	mg/kg	NA	490 U	NA
N-Nitrosodiphenylamine	mg/kg	NA	490 U	NA
Pentachlorophenol	mg/kg	NA	2,000 U	NA
Phenanthrene	mg/kg	NA	500	NA
Phenol	mg/kg	NA	490 U	NA
Pyrene	mg/kg	NA	490 U	NA
PCB				
Aroclor-1016	mg/kg	NA	1 U	NA
Aroclor-1221	mg/kg	NA	1 U	NA
Aroclor-1232	mg/kg	NA	1 U	NA
Aroclor-1242	mg/kg	NA	1 U	NA
Aroclor-1248	mg/kg	NA	1 U	NA
Aroclor-1254	mg/kg	NA	1 U	NA
Aroclor-1260	mg/kg	NA	1 U	NA
Total PCBs	mg/kg	NA	1 U	NA
Inorganic				
Antimony	mg/kg	NA	0.37 U	NA
Arsenic	mg/kg	NA	0.13 J	NA
Barium	mg/kg	NA	1.2	NA
Beryllium	mg/kg	NA	0.19 U	NA
Cadmium	mg/kg	NA	0.013 J	NA
Chromium Total	mg/kg	NA	2.7	NA
Cobalt	mg/kg	NA	0.37 U	NA
Copper	mg/kg	NA	0.18 J	NA
Cyanide (total)	mg/kg	NA	NA	0.2 UJ
Lead	mg/kg	NA	1.6	NA
Manganese	mg/kg	NA	0.2 J	NA
Mercury	mg/kg	NA	NA	0.02 U
Nickel	mg/kg	NA	0.37 U	NA
Selenium	mg/kg	NA	0.19 U	NA
Silver	mg/kg	NA	0.12 J	NA
Thallium	mg/kg	NA	0.37 U	NA
Vanadium	mg/kg	NA	1.2	NA
Zinc	mg/kg	NA	4.7 J	NA
Miscellaneous				
Ignitability	deg f	200 U	NA	NA
Interfacial Tension	dynes/cm	NA	18	NA
Specific gravity	sg	NA	0.87	NA
Viscosity	cp	NA	5.46	NA

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	40-7R 0 - 2 11/20/01	40-7R 2 - 4 11/20/01	40-7R 8 - 10 11/20/01
VOC											
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.041 U	0.041 U	0.045 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.082 U	0.081 U	0.09 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	0.18 U	0.17 U	0.19 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.041 U	0.041 U	0.045 U
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.041 U	0.041 U	0.045 U
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.041 U	0.041 U	0.045 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.18 U	0.17 U	0.19 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.18 U	0.17 U	0.19 U
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.18 U	0.17 U	0.19 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.082 U	0.081 U	0.09 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.041 U	0.041 U	0.045 U
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.041 U	0.041 U	0.045 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.082 U	0.081 U	0.09 U
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.082 U	0.081 U	0.09 U
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.11 J	0.062 J	0.066 J
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	0.29 U	0.29 U	0.32 U
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	0.29 U	0.29 U	0.32 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	0.35 J	0.26 J	0.29 J
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.076	0.041 U	0.045 U
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.082 U	0.081 U	0.09 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.082 U	0.081 U	0.09 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.18 U	0.17 U	0.19 U
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.18 U	0.17 U	0.19 U
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.041 U	0.041 U	0.045 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.041 U	0.041 U	0.045 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.18 U	0.17 U	0.19 U
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.041 U	0.041 U	0.045 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.18 U	0.17 U	0.19 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.09	0.041 U	0.045 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.041 U	0.041 U	0.045 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.14 J	0.17 U	0.19 U
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.082 U	0.081 U	0.09 U
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.082 U	0.081 U	0.09 U
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.075	0.041 U	0.045 U
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.18 U	0.17 U	0.19 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.36	0.03 J	0.09 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.091 J	0.19 U
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.29 U	0.29 U	0.32 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.37	0.036 J	0.19 U
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.18 U	0.17 U	0.19 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19	0.041 U	0.045 U
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.041 U	0.041 U	0.045 U
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.041 U	0.041 U	0.045 U
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.28	0.041 U	0.045 U
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.041 U	0.041 U	0.045 U

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	40-7R 0 - 2 11/20/01	40-7R 2 - 4 11/20/01	40-7R 8 - 10 11/20/01
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.041 U	0.041 U	0.045 U
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.32	0.041 U	0.045 U
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.082 U	0.081 U	0.09 U
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.041 U	0.041 U	0.045 U
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	0.19	0.041 U	0.045 U
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.19 U	0.2 U	0.21 U
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.19 U	0.2 U	0.21 U
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.19 U	0.2 U	0.21 U
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.19 U	0.2 U	0.21 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	R	0.79 U	0.85 U
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.77 U	0.79 U	0.85 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.19 U	0.2 U	0.21 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.256	0.2 U	0.21 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.77 U	0.79 U	0.85 U
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.39 UJ	0.4 UJ	0.43 UJ
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	0.77 U	0.79 U	0.85 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.77 U	0.79 U	0.85 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	R	0.79 U	0.85 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.77 U	0.79 U	0.85 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.77 U	0.79 U	0.85 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.77 U	0.79 U	0.85 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.77 U	0.79 U	0.85 U
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.045 J	0.2 U	0.21 U
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.0961 J	0.2 U	0.21 U
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	0.19 U	0.2 U	0.21 U
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.327	0.2 U	0.21 U
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	0.19 UJ	0.2 UJ	0.21 UJ
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.839	0.2 U	0.21 U
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	0.759 J	0.2 U	0.21 U

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	40-7R 0 - 2 11/20/01	40-7R 2 - 4 11/20/01	40-7R 8 - 10 11/20/01
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.867 J	0.2 U	0.21 U
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	0.442 J	0.2 U	0.21 U
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	1.02 J	0.2 U	0.21 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.2 U	0.21 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.038 U	0.039 U	0.042 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.0832 J	0.2 U	0.21 U
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	1.72	0.2 U	0.21 U
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	0.19 U	0.2 U	0.21 U
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	0.159 J	0.2 U	0.21 U
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	0.876	0.2 U	0.21 U
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	0.19 UJ	0.2 U	0.21 U
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.1 J	0.2 U	0.21 U
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.19 U	0.2 U	0.21 U
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.19 U	0.2 U	0.21 U
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.0606 J	0.2 U	0.21 U
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.19 UJ	0.2 U	0.21 U
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	1.63	0.2 U	0.21 U
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.074 J	0.2 U	0.21 U
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.19 U	0.2 U	0.21 U
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.19 U	0.2 U	0.21 U
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	R	0.2 U	0.21 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.19 U	0.2 U	0.21 U
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.366 J	0.2 U	0.21 U
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.19 U	0.2 U	0.21 U
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.19 U	0.2 U	0.21 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.158 J	0.2 U	0.21 U
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.077 U	0.079 U	0.085 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.19 U	0.2 U	0.21 U
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.19 U	0.2 U	0.21 U
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	0.77 U	0.79 U	0.85 U
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	0.999	0.2 U	0.21 U
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.19 U	0.2 U	0.21 U
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	2.35	0.2 U	0.21 U
PCB											
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.041 U	0.044 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.041 U	0.044 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.041 U	0.044 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.041 U	0.044 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.041 U	0.044 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U	0.041 U	0.044 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.22 J	0.041 U	0.044 U
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.22 J	0.041 U	0.044 U
Inorganic											
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	R	R	R

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
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Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	40-7R 0 - 2 11/20/01	40-7R 2 - 4 11/20/01	40-7R 8 - 10 11/20/01
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	**4.7 (GSIP (2013))**	2.7	**9.3 (GSIP (2013),SDBL (2013))**
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	**130 J (SDBL (2013))**	17 J	**90 J (SDBL (2013))**
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	0.86	0.18	0.75
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	0.62	0.076	0.11
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	**42 J (SDBL (2013))**	7.3 J	**23 J (SDBL (2013))**
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	**5 (GSIP (2013))**	**3.9 (GSIP (2013))**	**11 (GSIP (2013),SDBL (2013))**
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	**81 (SDBL (2013))**	4.2	21
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	**0.5 (GSIP (2013),SDBL (2013))**	0.2 U	**0.13 J (GSIP (2013))**
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	**140 J (SDBL (2013))**	6.4 J	13 J
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	**270 (GSIP (2013))**	92	**240 (GSIP (2013))**
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	**0.0642 J (GSIP (2013))**	0.0328 J	**0.0603 J (GSIP (2013))**
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	**29 (SDBL (2013))**	7.2	**30 (SDBL (2013))**
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	**0.51 (GSIP (2013),SDBL (2013))**	0.4 J	0.11 U
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	**0.17 J (GSIP (2013))**	0.087 J	**0.15 J (GSIP (2013))**
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.1 J	0.067 J	0.24 J
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	13	13	30
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	**240 (SDBL (2013))**	28	**70 (SDBL (2013))**
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	873,000	849,000	791,000

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	40-7R 12 - 14 11/20/01	RFI-40-01 0.3 - 2.3 05/24/01	RFI-40-05 0.8 - 2.8 01/17/02
VOC											
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.038 U	0.039 U	0.04 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.076 U	0.078 U	0.08 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	0.16 U	0.17 U	0.17 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.038 U	0.039 U	0.04 U
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.038 U	0.039 U	0.04 U
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.038 U	0.039 U	0.04 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.16 U	0.17 U	0.17 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.16 U	0.17 U	0.17 U
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.16 U	0.17 U	0.17 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.076 U	0.078 U	0.08 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.038 U	0.014 J	0.04 U
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.038 U	0.039 U	0.04 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.076 U	0.078 U	0.08 U
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.076 U	0.078 U	0.08 U
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.069 J	0.28 U	0.06 J
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	0.27 U	0.28 U	0.29 U
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	0.27 U	0.28 U	0.29 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	0.25 J	0.063 J	0.29 UJ
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.042 J	0.039 U	0.04 U
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.076 U	0.078 U	0.08 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.076 U	0.078 U	0.08 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.16 U	0.17 U	0.17 U
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.16 U	0.17 U	0.17 U
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.038 U	0.039 U	0.04 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.038 U	0.039 U	0.04 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.16 U	0.17 U	0.17 U
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.038 U	0.039 U	0.04 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.16 U	0.17 U	0.17 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.038 U	0.039 U	0.04 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.039 U	0.04 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	2 J	0.17 U	0.17 U
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.076 U	0.078 U	0.08 U
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.076 U	0.078 U	0.08 U
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	**1.6 J (GSIP (2013))**	0.039 U	0.04 U
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.69	0.17 U	0.17 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	2 J	0.078 U	0.08 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.16 U	0.073 J	0.17 U
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.27 U	0.28 U	0.29 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	10 JD	0.021 J	0.042 J
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.16 U	0.17 U	0.17 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.052 J	0.011 J	0.04 U
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.038 U	0.039 U	0.04 U
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.038 U	0.039 U	0.04 U
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.048 J	0.039 U	0.04 U
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.038 U	0.039 U	0.04 U

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	40-7R 12 - 14 11/20/01	RFI-40-01 0.3 - 2.3 05/24/01	RFI-40-05 0.8 - 2.8 01/17/02
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.039 U	0.04 U
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.038 U	0.039 U	0.04 U
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.076 U	0.078 U	0.08 U
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.038 U	0.039 U	0.04 U
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	0.052 J	0.011 J	0.04 U
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.2 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.2 U
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.18 U	0.19 U	0.2 U
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.18 U	0.19 U	0.2 U
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.18 U	0.19 U	0.2 U
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.18 U	0.19 U	0.2 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U	0.75 U	0.77 U
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.72 U	0.75 U	0.77 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.2 U
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.18 U	0.19 U	0.2 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.18 U	0.19 U	0.2 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	1.94	0.302	0.2 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.2 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U	0.75 U	0.77 U
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.18 U	0.19 U	0.2 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.37 UJ	0.38 U	0.39 UJ
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	0.72 U	0.75 U	0.77 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U	0.75 U	0.77 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	0.72 U	0.75 U	0.77 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.2 U
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.18 U	0.19 U	0.2 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U	0.75 U	0.77 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U	0.75 U	0.77 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U	0.75 U	0.77 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.72 U	0.75 U	0.77 U
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.0601 J	0.19 U	0.2 U
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.18 U	0.0508 J	0.2 U
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	0.18 U	0.19 U	0.2 U
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.0496 J	0.19 U	0.2 U
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	0.18 UJ	0.19 U	0.2 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.2 UJ
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.0363 J	0.102 J	0.2 U
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	0.0705 J	0.211 J	0.2 U

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	40-7R 12 - 14 11/20/01	RFI-40-01 0.3 - 2.3 05/24/01	RFI-40-05 0.8 - 2.8 01/17/02
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.18 U	0.456 J	0.2 U
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	0.18 U	0.113 J	0.2 U
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	0.18 U	0.154 J	0.2 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.19 U	0.2 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.036 U	0.037 U	0.038 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.18 U	0.19 U	0.2 U
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	0.18 U	0.19 U	0.2 U
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	0.18 U	0.19 U	0.2 U
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	0.18 U	0.19 U	0.2 U
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	0.0917 J	0.185 J	0.2 U
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	0.18 U	0.19 UJ	0.2 U
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.18 U	0.0901 J	0.2 U
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.18 U	0.19 U	0.2 U
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.18 U	0.19 U	0.2 U
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.18 U	0.19 U	0.2 U
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.18 U	0.19 UJ	0.2 U
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	0.18 U	0.176 J	0.2 U
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.0813 J	0.19 U	0.2 U
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.18 U	0.19 U	0.2 U
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.18 U	0.19 U	0.2 U
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.18 U	0.19 U	0.2 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.18 U	0.19 U	0.2 U
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.18 U	0.112 J	0.2 U
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.18 U	0.19 U	0.2 U
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.18 U	0.19 U	0.2 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	**0.984 (GSIP (2013))**	0.206	0.2 U
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.072 U	0.075 U	0.077 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.18 U	0.19 U	0.2 U
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.18 U	0.19 U	0.2 U
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	0.72 U	0.75 U	0.77 U
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	0.485	0.211	0.2 U
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.18 U	0.19 U	0.2 U
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	0.162 J	0.179 J	0.2 U
PCB											
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.038 U	0.039 U	0.04 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.038 U	0.039 U	0.04 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.038 U	0.039 U	0.04 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.038 U	0.039 U	0.04 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.038 U	0.039 U	0.04 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.038 U	0.039 U	0.04 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.038 U	0.039 U	0.04 U
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.038 U	0.039 U	0.04 U
Inorganic											
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	R	0.37 UJ	R

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	40-7R 12 - 14 11/20/01	RFI-40-01 0.3 - 2.3 05/24/01	RFI-40-05 0.8 - 2.8 01/17/02
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	2.4	3.6 J	3.8
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	11 J	37 J	21 J
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	0.11	0.3 J	0.35
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	0.059	**2 J (SDBL (2013))**	0.1
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	4.5 J	8.8 J	7.8
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	**2.4 (GSIP (2013))**	**3.4 J (GSIP (2013))**	**3.7 (GSIP (2013))**
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	5.5	31 J	9.7
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	0.2 U	0.041 J	0.2 U
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	3.2 J	**23 J (SDBL (2013))**	8.3
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	**140 (GSIP (2013))**	**170 (GSIP (2013))**	**170 J (GSIP (2013))**
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	0.0282 J	0.0412 J	0.0477 J
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	6.6	8 J	8.8
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	0.3	**0.54 J (GSIP (2013),SDBL (2013))**	0.089
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	0.1 J	0.081 J	0.088 J
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.075 J	0.18 J	0.53
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	6.4	16 J	13
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	21	**51 J (SDBL (2013))**	27
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	926,000	891,000	871,000

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-05 8.8 - 10.8 01/17/02	RFI-40-05 10.8 - 12.8 01/17/02	RFI-40-12 0 - 2 03/24/03
VOC											
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.041 U	0.039 U	0.041 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.082 U	0.078 U	0.082 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	0.17 U	0.17 U	0.18 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.041 U	0.039 U	0.041 U
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.041 U	0.039 U	0.041 U
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.041 U	0.039 U	0.041 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.17 U	0.17 U	0.18 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.17 U	0.17 U	0.18 U
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.17 U	0.17 U	0.18 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.082 U	0.078 U	0.082 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.041 U	0.039 U	0.041 U
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.041 U	0.039 U	0.041 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.082 U	0.078 U	0.082 U
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.082 U	0.078 U	0.082 U
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.051 J	0.043 J	0.35 U
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	0.29 U	0.28 U	0.082 U
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	0.29 U	0.28 U	1.8 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	0.29 UJ	0.28 UJ	0.35 U
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.041 U	0.039 U	0.041 U
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.082 U	0.078 U	0.082 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.082 U	0.078 U	0.082 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.17 U	0.17 U	0.18 U
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.17 U	0.17 U	0.18 U
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.041 U	0.039 U	0.041 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.041 U	0.039 U	0.041 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.17 U	0.17 U	0.18 U
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.041 U	0.039 U	0.041 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.17 U	0.17 U	0.18 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.041 U	0.039 U	0.041 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.041 U	0.039 U	0.041 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.17 U	0.067 J
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.082 U	0.078 U	0.082 U
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.082 U	0.078 U	0.082 U
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.041 U	0.039 U	0.044
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.17 U	0.17 U	0.036 J
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.082 U	0.078 U	0.15
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.17 U	1
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.29 U	0.28 U	0.18 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U	0.17 U	0.2
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.17 U	0.17 U	0.18 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.041 U	0.039 U	0.12
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.041 U	0.039 U	0.036 J
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.041 U	0.039 U	0.041 U
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.041 U	0.039 U	0.11
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.041 U	0.039 U	0.041 U

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-05 8.8 - 10.8 01/17/02	RFI-40-05 10.8 - 12.8 01/17/02	RFI-40-12 0 - 2 03/24/03
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.041 U	0.039 U	0.041 U
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.041 U	0.039 U	0.12
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.082 U	0.078 U	0.09
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.041 U	0.039 U	0.082 U
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	0.041 U	0.039 U	0.12
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.0543 J	0.19 U	2 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	2 U
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.2 U	0.19 U	2 U
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.2 U	0.19 U	2 U
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.2 U	0.19 U	2 U
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.2 U	0.19 U	2 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.78 U	0.75 U	8 U
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.78 U	0.75 U	8 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	2 U
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.2 U	0.19 U	2 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.2 U	0.19 U	2 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.2 U	0.19 U	1.48 J
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	2 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.78 U	0.75 U	8 U
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.2 U	0.19 U	2 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.4 UJ	0.38 UJ	4 U
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	0.78 U	0.75 U	8 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.78 U	0.75 U	8 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	0.78 U	0.75 U	8 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	2 U
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.2 U	0.19 U	2 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.78 U	0.75 U	8 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.78 U	0.75 U	8 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.78 U	0.75 U	8 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.78 U	0.75 U	8 U
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.2 U	0.19 U	7.69
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.2 U	0.19 U	0.515 J
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	0.2 U	0.19 U	2 U
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.2 U	0.19 U	15.9
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	0.2 U	0.19 U	2 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 UJ	0.19 UJ	2 UJ
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.2 U	0.19 U	37.1
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	0.2 U	0.19 U	**35.8 J (NDC (2013))**

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-05 8.8 - 10.8 01/17/02	RFI-40-05 10.8 - 12.8 01/17/02	RFI-40-12 0 - 2 03/24/03
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.2 U	0.19 U	36.1 J
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	0.2 U	0.19 U	23 J
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	0.2 U	0.19 U	37.2 J
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U	0.19 U	2 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.038 U	0.037 U	0.39 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.2 U	0.19 U	2.2
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	0.2 U	0.19 U	4.17
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	0.2 U	0.19 U	2 U
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	0.2 U	0.19 U	**10.7 (GSIP (2013))**
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	0.2 U	0.19 U	37.9
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	0.2 U	0.19 U	2 UJ
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.0442 J	0.19 U	**4.93 (GSIP (2013))**
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.198	0.19 U	2 U
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.2 U	0.19 U	2 U
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.2 U	0.19 U	2 U
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.2 U	0.19 U	2 U
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	0.2 U	0.19 U	**105 JD (GSIP (2013))**
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.2 U	0.19 U	**7.1 (GSIP (2013))**
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.2 U	0.19 U	2 U
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.2 U	0.19 U	2 U
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.2 U	0.19 U	2 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.2 U	0.19 U	2 U
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.2 U	0.19 U	20.8 J
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.2 U	0.19 U	2 U
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.2 U	0.19 U	2 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.2 U	0.19 U	**3.54 (GSIP (2013))**
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.078 U	0.075 U	0.8 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.2 U	0.19 U	2 U
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.0961 J	0.19 U	2 U
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	0.78 U	0.75 U	8 U
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	0.2 U	0.19 U	**77.1 D (GSIP (2013))**
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.2 U	0.19 U	2 U
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	0.2 U	0.19 U	88.8 D
PCB											
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.041 U	0.039 U	0.042 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.041 U	0.039 U	0.042 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.041 U	0.039 U	0.042 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.041 U	0.039 U	0.042 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.041 U	0.039 U	0.16
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.041 U	0.039 U	0.96
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.041 U	0.039 U	0.042 U
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.041 U	0.039 U	1.12
Inorganic											
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	R	R	0.21 J

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
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RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-05 8.8 - 10.8 01/17/02	RFI-40-05 10.8 - 12.8 01/17/02	RFI-40-12 0 - 2 03/24/03
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	3.9	4.4	**6.4 (GSIP (2013),SDBL (2013))**
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	39 J	39 J	**290 (SDBL (2013))**
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	0.65	0.76	0.34
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	0.14	0.11	**1.4 (SDBL (2013))**
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	12	15	**30 (SDBL (2013))**
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	**4.8 (GSIP (2013))**	**6.3 (GSIP (2013))**	**5.1 (GSIP (2013))**
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	11	9.8	**56 (SDBL (2013))**
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	0.5 U	0.4 U	**2.6 (GSIP (2013),SDBL (2013))**
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	6.7	6.7	**120 (SDBL (2013))**
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	**230 J (GSIP (2013))**	**300 J (GSIP (2013))**	**210 J (GSIP (2013))**
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	0.0302 J	0.0212 J	**0.143 (GSIP (2013),SDBL (2013))**
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	14	17	**27 (SDBL (2013))**
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	**0.43 J (GSIP (2013),SDBL (2013))**	0.2	0.54 U
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	**0.12 J (GSIP (2013))**	**0.11 J (GSIP (2013))**	**0.14 J (GSIP (2013))**
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.3	0.19	0.18
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	19	27	19
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	28	28	**760 J (GSIP (2013),SDBL (2013))**
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	859,000	889,000	841,000

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-12 8 - 10 03/24/03	RFI-40-12 12 - 14 03/24/03	RFI-40-13 0.5 - 2.5 03/25/03
VOC											
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.037 U	0.039 U	0.15
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.074 UJ	0.078 UJ	0.077 UJ
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	0.16 U	0.17 U	0.16 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.037 U	0.039 U	0.038 U
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.037 U	0.039 U	0.038 U
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.037 U	0.039 U	0.038 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.16 U	0.17 U	0.16 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.16 U	0.17 U	0.16 U
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.16 U	0.17 U	0.16 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.074 U	0.078 U	0.077 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.037 U	0.039 U	0.038 U
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.037 U	0.039 U	0.038 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.074 U	0.078 U	0.077 U
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.074 U	0.078 U	0.077 U
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.32 UJ	0.34 UJ	0.33 UJ
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	0.074 UJ	0.078 UJ	0.077 UJ
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	1.6 UJ	1.7 U	1.6 UJ
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	0.32 UJ	0.34 UJ	0.33 UJ
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.037 U	0.039 U	0.038 U
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.074 U	0.078 U	0.077 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.074 U	0.078 U	0.077 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.16 U	0.17 U	0.16 U
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.16 UJ	0.17 UJ	0.16 UJ
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.037 U	0.039 U	0.038 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.037 U	0.039 U	0.038 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.16 U	0.17 U	0.16 U
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.037 U	0.039 U	0.038 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.16 U	0.17 U	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.037 U	0.039 U	0.038 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.037 U	0.039 U	0.038 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.16 U	0.17 U	0.055 J
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.074 U	0.078 U	0.077 U
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.074 U	0.078 U	0.077 U
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.037 U	0.039 U	0.038 U
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.16 U	0.17 U	0.16 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.074 U	0.078 U	0.068 J
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.16 UJ	0.17 UJ	0.16 UJ
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.16 UJ	0.17 UJ	0.16 UJ
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.16 UJ	0.17 UJ	0.24 J
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.036 J	0.17 U	0.042 J
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.037 U	0.039 U	0.064
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.037 U	0.039 U	0.038 U
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.037 U	0.039 U	0.038 U
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.074 U	0.078 U	0.12
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.037 U	0.039 U	0.038 U

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-12 8 - 10 03/24/03	RFI-40-12 12 - 14 03/24/03	RFI-40-13 0.5 - 2.5 03/25/03
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.037 U	0.039 U	0.038 U
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.037 U	0.039 U	0.038 U
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.074 U	0.078 U	0.077 U
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.074 U	0.078 U	0.077 U
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	0.037 U	0.039 U	0.064
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.2 U	1.9 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.2 U	1.9 U
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.18 U	0.2 U	1.9 U
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.18 U	0.2 U	1.9 U
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.18 U	0.2 U	1.9 U
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.18 U	0.2 U	1.9 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.71 U	0.77 U	7.6 U
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.71 U	0.77 U	7.6 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.2 U	1.9 U
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.18 U	0.2 U	1.9 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.18 U	0.2 U	1.9 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.18 U	0.2 U	1.9 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.2 U	1.9 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.71 U	0.77 U	7.6 U
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.18 U	0.2 U	1.9 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.36 UJ	0.39 UJ	3.9 UJ
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	0.71 U	0.77 U	7.6 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.71 U	0.77 U	7.6 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	0.71 U	0.77 U	7.6 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.2 U	1.9 U
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.18 U	0.2 U	1.9 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.71 U	0.77 U	7.6 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.71 U	0.77 U	7.6 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.71 U	0.77 U	7.6 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.71 U	0.77 U	7.6 U
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.18 U	0.2 U	1.9 U
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.18 U	0.2 U	1.9 U
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	0.18 U	0.2 U	1.9 U
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.18 U	0.2 U	1.9 U
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	0.18 U	0.2 U	1.9 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 UJ	0.2 U	1.9 UJ
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.18 U	0.2 U	1.9 U
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	0.18 U	0.2 U	1.9 U

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-12 8 - 10 03/24/03	RFI-40-12 12 - 14 03/24/03	RFI-40-13 0.5 - 2.5 03/25/03
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.18 U	0.2 U	1.9 U
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	0.18 U	0.2 U	1.9 U
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	0.18 U	0.2 U	1.9 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.18 U	0.2 U	1.9 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.035 U	0.038 U	0.37 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.18 U	0.2 U	1.9 U
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	0.18 U	0.2 U	1.9 U
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	0.18 U	0.2 U	1.9 U
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	0.18 U	0.2 U	1.9 U
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	0.18 U	0.2 U	1.9 U
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	0.18 UJ	0.2 UJ	1.9 UJ
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.18 U	0.2 U	1.9 U
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.18 U	0.2 U	1.9 U
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.18 U	0.2 U	1.9 U
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.18 U	0.2 U	1.9 U
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.18 U	0.2 U	1.9 U
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	0.18 U	0.2 U	1.22 J
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.18 U	0.2 U	1.9 U
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.18 U	0.2 U	1.9 U
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.18 U	0.2 U	1.9 U
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.18 U	0.2 U	1.9 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.18 U	0.2 U	1.9 U
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.18 UJ	0.2 UJ	1.9 UJ
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.18 U	0.2 U	1.9 U
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.18 U	0.2 U	1.9 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.18 U	0.2 U	1.9 U
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.071 U	0.077 U	0.76 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.18 U	0.2 U	1.9 U
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.18 U	0.2 U	1.9 U
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	0.71 U	0.77 U	7.6 U
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	0.18 U	0.2 U	0.718 J
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.18 U	0.2 U	1.9 U
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	0.18 U	0.2 U	1.19 J
PCB											
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.04 U	0.04 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.04 U	0.04 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.04 U	0.04 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.04 U	0.04 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.04 U	0.04 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.04 U	0.04 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.037 U	0.04 U	0.04 U
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.037 U	0.04 U	0.04 U
Inorganic											
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	0.017 J	R	0.32 J

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-12 8 - 10 03/24/03	RFI-40-12 12 - 14 03/24/03	RFI-40-13 0.5 - 2.5 03/25/03
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	**5.1 (GSIP (2013))**	4.4	**6 (GSIP (2013),SDBL (2013))**
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	45	29	61
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	0.34	0.27	0.31
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	0.091 U	0.11 U	0.48
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	15	11	11
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	**5.6 (GSIP (2013))**	**5.4 (GSIP (2013))**	**3.6 (GSIP (2013))**
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	10	13	**37 (SDBL (2013))**
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	1 U	1 U	**0.24 (GSIP (2013))**
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	7.2	6	**54 (SDBL (2013))**
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	**220 J (GSIP (2013))**	**250 J (GSIP (2013))**	**180 J (GSIP (2013))**
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	0.00981 J	0.0127 J	**0.0511 J (GSIP (2013))**
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	15	15	12
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	0.25 U	0.35 U	0.42 U
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	**0.11 J (GSIP (2013))**	0.057 J	0.06 J
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.13 J	0.13 J	0.18
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	22	17	13
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	33 J	31 J	**210 J (SDBL (2013))**
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	938,000	869,000	881,000

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-13 8.5 - 10.5 03/25/03	RFI-40-13 12.5 - 14.5 03/25/03
VOC										
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.04 U [0.041 U]	0.038 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.08 UJ [0.081 UJ]	0.075 UJ
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	0.17 U [0.17 U]	0.16 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.04 U [0.041 U]	0.038 U
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.04 U [0.041 U]	0.038 U
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.04 U [0.041 U]	0.038 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.17 U [0.17 U]	0.16 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.17 U [0.17 U]	0.16 U
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.17 U [0.17 U]	0.16 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.08 U [0.081 U]	0.075 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.04 U [0.041 U]	0.038 U
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.04 U [0.041 U]	0.038 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.08 U [0.081 U]	0.075 U
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.08 U [0.081 U]	0.075 U
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.34 UJ [0.35 UJ]	0.32 UJ
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	0.08 UJ [0.081 UJ]	0.075 UJ
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	1.7 UJ [1.7 UJ]	1.6 UJ
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	0.34 UJ [0.35 UJ]	0.32 UJ
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.04 U [0.041 U]	0.038 U
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.08 U [0.081 U]	0.075 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.08 U [0.081 U]	0.075 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.17 U [0.17 U]	0.16 U
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.17 UJ [0.17 UJ]	0.16 UJ
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.04 U [0.041 U]	0.038 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.04 U [0.041 U]	0.038 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.17 U [0.17 U]	0.16 U
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.04 U [0.041 U]	0.038 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.17 U [0.17 U]	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.04 U [0.041 U]	0.038 U
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.04 U [0.041 U]	0.038 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U [0.17 U]	0.16 U
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.08 U [0.081 U]	0.075 U
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.08 U [0.081 U]	0.075 U
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.04 U [0.041 U]	0.038 U
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.17 U [0.17 U]	0.16 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.08 U [0.081 U]	0.075 U
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 UJ [0.17 UJ]	0.16 UJ
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.17 UJ [0.17 UJ]	0.16 UJ
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 UJ [0.17 UJ]	0.16 UJ
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.093 J [0.15 J]	0.087 J
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.04 U [0.041 U]	0.038 U
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.04 U [0.041 U]	0.038 U
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.04 U [0.041 U]	0.038 U
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.08 U [0.081 U]	0.075 U
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.04 U [0.041 U]	0.038 U

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-13 8.5 - 10.5 03/25/03	RFI-40-13 12.5 - 14.5 03/25/03
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.04 U [0.041 U]	0.038 U
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.04 U [0.041 U]	0.038 U
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.08 U [0.081 U]	0.075 U
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.08 U [0.081 U]	0.075 U
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	0.04 U [0.041 U]	0.038 U
SVOC										
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U [0.2 U]	0.19 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U [0.2 U]	0.19 U
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.2 U [0.2 U]	0.19 U
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.2 U [0.2 U]	0.19 U
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.2 U [0.2 U]	0.19 U
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.2 U [0.2 U]	0.19 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.8 U [0.79 U]	0.74 U
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.8 U [0.79 U]	0.74 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U [0.2 U]	0.19 U
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.2 U [0.2 U]	0.19 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.2 U [0.2 U]	0.19 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.2 U [0.2 U]	0.19 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U [0.2 U]	0.19 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.8 U [0.79 U]	0.74 U
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.2 U [0.2 U]	0.19 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.4 UJ [0.4 UJ]	0.38 UJ
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	0.8 U [0.79 U]	0.74 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.8 U [0.79 U]	0.74 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	0.8 U [0.79 U]	0.74 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U [0.2 U]	0.19 U
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.2 U [0.2 U]	0.19 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.8 U [0.79 U]	0.74 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.8 U [0.79 U]	0.74 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.8 U [0.79 U]	0.74 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.8 U [0.79 U]	0.74 U
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.2 U [0.2 U]	0.19 U
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.2 U [0.2 U]	0.19 U
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	0.2 U [0.2 U]	0.19 U
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.2 U [0.2 U]	0.19 U
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	0.2 U [0.2 U]	0.19 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U [0.2 UJ]	0.19 UJ
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.2 U [0.2 U]	0.19 U
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	0.2 U [0.2 U]	0.19 U

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-13 8.5 - 10.5 03/25/03	RFI-40-13 12.5 - 14.5 03/25/03
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.2 U [0.2 U]	0.19 U
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	0.2 U [0.2 U]	0.19 U
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	0.2 U [0.2 U]	0.19 U
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.2 U [0.2 U]	0.19 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.039 U [0.039 U]	0.036 U
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.2 U [0.2 U]	0.19 U
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	0.2 U [0.2 U]	0.19 U
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	0.2 U [0.2 U]	0.19 U
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	0.2 U [0.2 U]	0.19 U
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	0.2 U [0.2 U]	0.19 U
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	0.2 UJ [0.2 UJ]	0.19 UJ
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.2 U [0.2 U]	0.19 U
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.2 U [0.2 U]	0.19 U
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.2 U [0.2 U]	0.19 U
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.2 U [0.2 U]	0.19 U
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.2 U [0.2 U]	0.19 U
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	0.2 U [0.2 U]	0.19 U
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.2 U [0.2 U]	0.19 U
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.2 U [0.2 U]	0.19 U
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.2 U [0.2 U]	0.19 U
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.2 U [0.2 U]	0.19 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.2 U [0.2 U]	0.19 U
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.2 UJ [0.2 UJ]	0.19 UJ
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.2 U [0.2 U]	0.19 U
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.2 U [0.2 U]	0.19 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.2 U [0.2 U]	0.19 U
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.08 U [0.079 U]	0.074 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.2 U [0.2 U]	0.19 U
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.2 U [0.2 U]	0.19 U
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	0.8 U [0.79 U]	0.74 U
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	0.2 U [0.2 U]	0.19 U
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.2 U [0.2 U]	0.19 U
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	0.2 U [0.2 U]	0.19 U
PCB										
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U [0.041 U]	0.039 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U [0.041 U]	0.039 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U [0.041 U]	0.039 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U [0.041 U]	0.039 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U [0.041 U]	0.039 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U [0.041 U]	0.039 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.042 U [0.041 U]	0.039 U
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.042 U [0.041 U]	0.039 U
Inorganic										
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	0.016 J [0.012 J]	0.018 J

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-13 8.5 - 10.5 03/25/03	RFI-40-13 12.5 - 14.5 03/25/03
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	**5.9 (GSIP (2013),SDBL (2013)) [6.4 (GSIP (2013),SDBL (2013))]**	3.9
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	47 [50]	20
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	0.34 [0.32]	0.17
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	0.1 U [0.095 U]	0.07 U
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	13 [14]	8.1
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	**6.4 (GSIP (2013)) [6 (GSIP (2013))]**	**4 (GSIP (2013))**
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	13 [13]	9.4
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	1 U [1 U]	1 U
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	7.3 [7.3]	5
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	**250 J (GSIP (2013)) [220 J (GSIP (2013))]**	**230 J (GSIP (2013))**
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	0.0126 J [0.0156 J]	0.00886 J
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	16 [16]	12
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	0.23 U [0.18 U]	0.19 U
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	0.063 J [0.064 J]	0.044 J
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.17 [0.14 J]	0.091 J
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	22 [23]	13
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	36 J [36 J]	22 J
Miscellaneous										
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	842,000 [846,000]	905,000

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-16 0 - 2 08/23/04	RFI-40-17 0 - 2 08/23/04	RFI-40-18 0 - 2 08/23/04	SB-40-01 1 - 3 09/17/13	SB-40-01 3 - 5 09/17/13	SB-40-05 0 - 2 09/18/13
VOC														
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	NA	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	NA	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	NA	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	NA	NA	NA	NA	NA	NA

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
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RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-16 0 - 2 08/23/04	RFI-40-17 0 - 2 08/23/04	RFI-40-18 0 - 2 08/23/04	SB-40-01 1 - 3 09/17/13	SB-40-01 3 - 5 09/17/13	SB-40-05 0 - 2 09/18/13
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	NA	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	NA	NA	NA	NA	NA	NA
SVOC														
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA	NA	NA	NA	0.532 UX
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA	NA	NA	NA	0.532 UX
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA	NA	NA	NA	0.532 UX
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA	NA	NA	NA	0.532 UX
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.83 U
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	NA	NA	NA	NA	NA	0.532 UX
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	NA	NA	NA	NA	NA	0.532 UX
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.83 U
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	NA	NA	NA	NA	NA	2 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.83 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	NA	NA	NA	NA	NA	0.83 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.83 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.83 U
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	NA	NA	NA	NA	NA	0.851 X
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	NA	NA	NA	NA	NA	0.532 UX
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	NA	NA	NA	NA	NA	2.702 X
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	NA	NA	NA	NA	NA	10.532 X
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	3.5	0.33 U	0.33 U	NA	NA	**10.489 X (NDC (2013))**

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
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RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-40-16 0 - 2 08/23/04	RFI-40-17 0 - 2 08/23/04	RFI-40-18 0 - 2 08/23/04	SB-40-01 1 - 3 09/17/13	SB-40-01 3 - 5 09/17/13	SB-40-05 0 - 2 09/18/13
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	NA	NA	NA	NA	NA	11.478 X
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	NA	NA	NA	NA	NA	2.66 X
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	NA	NA	NA	NA	NA	9.585 X
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	NA	NA	NA	NA	NA	0.532 UX
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	NA	NA	NA	NA	NA	1.17 X
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	NA	NA	NA	NA	NA	11.383 X
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	NA	NA	NA	NA	NA	1 X
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	NA	NA	NA	NA	NA	0.532 UX
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	NA	NA	NA	NA	NA	**21.148 X (GSIP (2013))**
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	NA	NA	NA	NA	NA	0.777 X
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	NA	NA	NA	NA	NA	0.532 UX
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	NA	NA	NA	NA	NA	0.532 UX
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	NA	NA	NA	NA	NA	0.532 UX
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	NA	NA	NA	NA	NA	0.532 UX
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	NA	NA	NA	NA	NA	2.702 X
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	NA	NA	NA	NA	NA	0.532 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	NA	NA	NA	NA	NA	0.532 UX
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	NA	NA	NA	NA	NA	0.532 UX
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	NA	NA	NA	NA	NA	**10.298 X (GSIP (2013))**
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	NA	NA	NA	NA	NA	0.532 UX
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	NA	NA	NA	NA	NA	23.084 X
PCB														
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	NA
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	NA
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	NA
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	NA
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	NA
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	NA
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	0.33 U	0.33 U	NA
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	NA	NA	NA	0.33 U	0.33 U	NA
Inorganic														
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	NA	NA	NA	NA	NA	NA

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Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	NA	NA	NA	NA	NA	NA
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	NA	NA	NA	NA	NA	NA
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	NA	NA	NA	NA	NA	NA
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	NA	NA	NA	NA	NA	NA
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	NA	NA	NA	NA	NA	NA
Miscellaneous														
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	862,000	837,000	809,000	860,000	820,000	940,000

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-40-06 0 - 2 09/18/13	SB-40-07 0 - 2 09/18/13	SB-40-08 0 - 2 09/18/13
VOC											
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	NA	NA	NA
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	NA	NA	NA
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	NA	NA	NA
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	NA	NA	NA
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	NA	NA	NA
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	NA	NA	NA
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	NA	NA	NA

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-40-06 0 - 2 09/18/13	SB-40-07 0 - 2 09/18/13	SB-40-08 0 - 2 09/18/13
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	NA	NA	NA
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.562 UX	0.568 UX	0.568 UX
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.562 UX	0.568 UX	0.568 UX
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.562 UX	0.568 UX	0.568 UX
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.562 UX	0.568 UX	0.568 UX
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	0.83 U
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.562 UX	0.568 UX	0.568 UX
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.562 UX	0.568 UX	0.568 UX
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	0.83 U
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	2 U	2 U	2 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	0.83 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	0.83 U	0.83 U	0.83 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	0.83 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	0.568 U
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	1.427 X	2.712 X	1.625 X
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.562 UX	0.568 UX	0.568 UX
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	NA	NA	NA
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	3.618 X	7.531 X	4.648 X
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	13.326 X	22.667 X	16.841 X
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	**15.326 XI (NDC (2013))**	**25.213 IX (NDC (2013))**	**19.398 XI (NDC (2013))**

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-40-06 0 - 2 09/18/13	SB-40-07 0 - 2 09/18/13	SB-40-08 0 - 2 09/18/13
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	16.944 XI	27.41 XI	21.33 XI
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	4.764 XI	8.152 XI	5.046 XI
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	14.236 XI	23.213 XI	17.637 IX
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.562 UX	0.568 UX	0.568 UX
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.753 X	1.015 X	0.909 X
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	1.427 X	1.318 X	1.205 X
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	NA	NA	NA
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	NA	NA	NA
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	14.697 X	25.077 X	18.387 X
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	1.169 XI	2.046 XI	1.114 XI
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.562 UX	1.273 X	0.716 X
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.562 UXI	0.568 UXI	0.568 UXI
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	**28.214 X (GSIP (2013))**	**49.608 X (GSIP (2013))**	**34.49 X (GSIP (2013))**
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	1.124 X	2.424 X	1.341 X
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.562 UX	0.568 UX	0.568 UX
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.562 UX	0.568 UX	0.568 UX
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.562 UX	0.568 UX	0.568 UX
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.562 UX	0.568 UX	0.568 UX
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	4.337 XI	7.379 XI	4.852 XI
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.562 U	0.568 U	0.568 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.562 UX	0.636 X	0.568 UX
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.562 UX	0.568 UX	0.568 UX
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	**15.865 X (GSIP (2013))**	**30.562 X (GSIP (2013))**	**18.967 X (GSIP (2013))**
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.562 UX	0.568 UX	0.568 UX
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	34.225 X	64.896 X	42.57 X
PCB											
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	NA	NA	NA
Inorganic											
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	NA	NA	NA

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-40-06 0 - 2 09/18/13	SB-40-07 0 - 2 09/18/13	SB-40-08 0 - 2 09/18/13
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	NA	NA	NA
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	NA	NA	NA
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	NA	NA	NA
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	NA	NA	NA
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	NA	NA	NA
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	NA	NA	NA
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	NA	NA	NA
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	NA	NA	NA
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	NA	NA	NA
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	NA	NA	NA
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	NA	NA	NA
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	NA	NA	NA
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	NA	NA	NA
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	NA	NA	NA
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	NA	NA	NA
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	NA	NA	NA
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	890,000	880,000	880,000

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-40-09 0 - 2 09/18/13	SB-40-10 0 - 2 09/18/13	SB-40-11 0 - 2 02/25/14	SB-40-12 0 - 2 02/25/14	SB-40-13 0 - 2 02/25/14
VOC													
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	NA	NA	NA	NA	NA
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	NA	NA	NA	NA	NA
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	NA	NA	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	NA	NA	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	NA	NA	NA	NA	NA
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	NA	NA	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	NA	NA	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	NA	NA	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	NA	NA	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	NA	NA	NA	NA	NA

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
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RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-40-09 0 - 2 09/18/13	SB-40-10 0 - 2 09/18/13	SB-40-11 0 - 2 02/25/14	SB-40-12 0 - 2 02/25/14	SB-40-13 0 - 2 02/25/14
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	NA	NA	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	NA	NA	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	NA	NA	NA	NA	NA
SVOC													
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.543 UX	0.362 UX	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.543 UX	0.362 UX	NA	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.543 UX	0.362 UX	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.543 UX	0.362 UX	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.543 UX	0.362 UX	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.543 UX	0.362 UX	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.543 UX	0.362 UX	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.543 UX	0.362 UX	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.543 UX	0.362 UX	NA	NA	NA
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.543 UX	0.362 UX	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.543 UX	0.362 UX	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.543 UX	0.362 UX	NA	NA	NA
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.543 UX	0.362 UX	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.543 UX	0.362 UX	NA	NA	NA
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.543 UX	0.362 UX	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.543 UX	0.362 UX	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	NA	NA	NA
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.543 UX	0.362 UX	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.543 UX	0.362 UX	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	2 U	2 U	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	0.83 U	0.83 U	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.543 UX	0.362 UX	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.543 UX	0.362 UX	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.543 UX	0.362 UX	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.543 UX	0.362 UX	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.83 U	0.83 U	NA	NA	NA
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	2.489 X	1.072 X	NA	NA	NA
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.543 UX	0.362 UX	NA	NA	NA
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	NA	NA	NA	NA	NA
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	6.468 X	2.623 X	NA	NA	NA
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	NA	NA	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	23.621 X	8.333 X	NA	NA	NA
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	**26.892 XI (NDC (2013))**	**8.71 X (NDC (2013))**	5	0.6	0.6

Table P

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Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	29.795 XI	8.913 X	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	9.142 XI	2.094 X	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	25.903 XI	7.819 X	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.543 UX	0.362 UX	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.543 UX	0.362 UX	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	1.717 X	0.406 X	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	1.946 X	0.399 X	NA	NA	NA
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	NA	NA	NA	NA	NA
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	NA	NA	NA	NA	NA
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	25.751 X	8.783 X	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	2.174 XI	0.674 X	NA	NA	NA
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	1.033 X	0.399 X	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.543 UX	0.362 UX	NA	NA	NA
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.543 UX	0.362 UX	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.543 UX	4.246 X	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.543 UXI	0.362 UX	NA	NA	NA
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	**46.882 X (GSIP (2013))**	**17.899 X (GSIP (2013))**	NA	NA	NA
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	1.989 X	0.804 X	NA	NA	NA
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.543 UX	0.362 UX	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.543 UX	0.362 UX	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.543 UX	0.362 UX	NA	NA	NA
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.543 UX	0.362 UX	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	7.718 XI	2.21 X	NA	NA	NA
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.543 UX	0.362 UX	NA	NA	NA
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.543 U	0.362 U	NA	NA	NA
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	**0.794 X (GSIP (2013))**	0.362 UX	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.543 UX	0.362 UX	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.543 UX	0.362 UX	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.543 UX	0.362 UX	NA	NA	NA
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	0.543 UX	0.362 UX	NA	NA	NA
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	**26.49 X (GSIP (2013))**	**10.645 X (GSIP (2013))**	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.543 UX	0.362 UX	NA	NA	NA
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	69.144 X	18.152 X	NA	NA	NA
PCB													
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA	NA	NA
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	NA	NA	NA	NA	NA
Inorganic													
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	NA	NA	NA	NA	NA

Table P

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Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	NA	NA	NA	NA	NA
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	NA	NA	NA	NA	NA
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	NA	NA	NA	NA	NA
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	NA	NA	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	NA	NA	NA	NA	NA
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	NA	NA	NA	NA	NA
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	NA	NA	NA	NA	NA
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	NA	NA	NA	NA	NA
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	NA	NA	NA	NA	NA
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	NA	NA	NA	NA	NA
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	NA	NA	NA	NA	NA
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	NA	NA	NA	NA	NA
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	NA	NA	NA	NA	NA
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	NA	NA	NA	NA	NA
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	NA	NA	NA	NA	NA
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	NA	NA	NA	NA	NA
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	920,000	920,000	820,000	800,000	900,000

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Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-40-14 0 - 2 02/25/14	SB-40-15 0 - 2 02/25/14
VOC										
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	NA	NA
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	NA	NA
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	NA	NA
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	NA	NA
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	NA	NA
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	NA	NA
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	NA	NA
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	NA	NA
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	NA	NA
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	NA	NA
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	NA	NA

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-40-14 0 - 2 02/25/14	SB-40-15 0 - 2 02/25/14
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	NA	NA
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	NA	NA
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	NA	NA
SVOC										
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA
1,2-Diphenylhydrazine	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	NA	NA
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	NA	NA
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	NA	NA
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	NA	NA
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	NA	NA
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	NA	NA
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	NA	NA
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	NA	NA
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	0.3 U [0.7]	1.2

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-40-14 0 - 2 02/25/14	SB-40-15 0 - 2 02/25/14
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	NA	NA
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	NA	NA
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	NA	NA
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	NA	NA
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	NA	NA
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	NA	NA
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	NA	NA
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	NA	NA
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	NA	NA
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	NA	NA
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	NA	NA
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	NA	NA
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	NA	NA
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	NA	NA
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	NA	NA
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	NA	NA
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	NA	NA
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	NA	NA
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	NA	NA
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	NA	NA
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	NA	NA
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	NA	NA
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	NA	NA
PCB										
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	NA	NA
Inorganic										
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	NA	NA

Table P

AOI 40-A Soil Impacts and Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	SB-40-14 0 - 2 02/25/14	SB-40-15 0 - 2 02/25/14
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	NA	NA
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	NA	NA
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	NA	NA
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	NA	NA
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	NA	NA
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	NA	NA
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	NA	NA
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	NA	NA
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	NA	NA
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	NA	NA
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	NA	NA
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	NA	NA
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	NA	NA
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	NA	NA
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	NA	NA
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	NA	NA
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	NA	NA
Miscellaneous										
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	800,000 [790,000]	820,000

Table Q **AOI 83/84-3 Lead Soil Investigation Data**

Summary of Soil Sample Analytical Results

RACER Trust, Buick City Site, Flint, Michigan

Location ID:				RFI-83/84-05	RFI-83/84-05	RFI-83/84-11	RFI-83/84-11	RFI-83/84-16	RFI-83/84-16	RFI-83/84-16	RFI-83/84-16	RFI-83/84-17
Sample Depth(ft):				0.7 - 2.7	6.7 - 8.7	0 - 2	4 - 6	0.8 - 2.8	2.5 - 3.5	2.8 - 4.8	6 - 8	3 - 5
Date Collected:	NDC	NPSIC	Units	07/24/01	07/24/01	06/25/01	06/25/01	12/10/01	09/21/12	12/10/01	09/21/12	10/03/12
Inorganic												
Antimony	670		mg/kg	1.7 U	0.23 U	R	0.046 J	NA	NA	NA	NA	NA
Arsenic	37		mg/kg	5.7	3.7	3.6	2.6	NA	NA	NA	NA	NA
Barium	130,000		mg/kg	210	6.5	32	9.4	NA	NA	NA	NA	NA
Beryllium	1,600		mg/kg	0.91	0.1	0.17	0.2	NA	NA	NA	NA	NA
Cadmium	2,100		mg/kg	0.92	0.076	0.26	0.068	NA	NA	NA	NA	NA
Chromium Total	1,000,000 {(D)}		mg/kg	17	6.8	14	7	NA	NA	NA	NA	NA
Cobalt	9,000		mg/kg	4.5	2.2	2.4 J	2.3 J	NA	NA	NA	NA	NA
Copper	73,000		mg/kg	160 J	5.1 J	33 J	3.4 J	NA	NA	NA	NA	NA
Cyanide (total)	250		mg/kg	0.32	0.2 U	0.33	0.026 J	NA	NA	NA	NA	NA
Lead	900	44,000	mg/kg	**42,000 JD**	6.4 J	33	4.7	670 J [870 J]	12.3	**2,500 J**	18.7	12
Manganese	90,000		mg/kg	200 J	130 J	190	65	NA	NA	NA	NA	NA
Mercury	580		mg/kg	5.12 D	0.073 U	0.0258 J	0.075 U	NA	NA	NA	NA	NA
Nickel	150,000		mg/kg	21	6.3	18 J	6 J	NA	NA	NA	NA	NA
Selenium	9,600		mg/kg	0.64 U	0.27 UJ	0.29 J	0.26	NA	NA	NA	NA	NA
Silver	9,000		mg/kg	0.3	0.026 J	0.062 J	0.082 J	NA	NA	NA	NA	NA
Thallium	130		mg/kg	0.34	0.15 J	0.047 J	0.039 J	NA	NA	NA	NA	NA
Vanadium	5,500		mg/kg	14	10	11	11	NA	NA	NA	NA	NA
Zinc	630,000		mg/kg	190	20	43	18	NA	NA	NA	NA	NA

Table Q **AOI 83/84-3 Lead Soil Investigation Data**

Summary of Soil Sample Analytical Results

RACER Trust, Buick City Site, Flint, Michigan

Location ID:				RFI-83/84-17R	RFI-83/84-18	RFI-83/84-18	RFI-83/84-18	RFI-83/84-19	RFI-83/84-19	RFI-83/84-34	RFI-83/84-35	RFI-83/84-35
Sample Depth(ft):				1 - 3	0.8 - 2.8	2.8 - 4.8	6 - 8	0.8 - 2.8	2.8 - 3.4	0.7 - 2.7	0.7 - 2.7	2.8 - 4
Date Collected:	NDC	NPSIC	Units	03/06/03	12/10/01	12/10/01	10/03/12	12/10/01	12/10/01	09/04/02	09/04/02	09/21/12
Inorganic												
Antimony	670		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	37		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	130,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	1,600		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	2,100		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	1,000,000 {(D)}		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	9,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	73,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	250		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	900	44,000	mg/kg	**1,800**	400 J	**1,100 J**	25.5	110 J	38 J	35	**3,900**	22.2
Manganese	90,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	580		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	150,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	9,600		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	9,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	130		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	5,500		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	630,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table Q **AOI 83/84-3 Lead Soil Investigation Data**

Summary of Soil Sample Analytical Results

RACER Trust, Buick City Site, Flint, Michigan

Location ID:				RFI-83/84-36	RFI-83/84-36	RFI-83/84-37	RFI-83/84-37	RFI-83/84-37	RFI-83/84-41	RFI-83/84-42	RFI-83/84-43	SB-83/84-01	SB-83/84-02
Sample Depth(ft):				0	0.7 - 2.7	0.7 - 2.7	2.4 - 4.8	6 - 8	1 - 2	1 - 3	1.5 - 3.5	3.8 - 5	0.9 - 2.9
Date Collected:	NDC	NPSIC	Units	10/03/12	09/04/02	09/04/02	10/03/12	10/03/12	03/05/03	03/05/03	03/05/03	09/21/12	09/21/12
Inorganic													
Antimony	670		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	37		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	130,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	1,600		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	2,100		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	1,000,000 {(D)}		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	9,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	73,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	250		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	900	44,000	mg/kg	767	200	290	**1,350**	5.73	10	47	400	18.1	3.69
Manganese	90,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	580		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	150,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	9,600		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	9,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	130		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	5,500		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	630,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table Q **AOI 83/84-3 Lead Soil Investigation Data**

Summary of Soil Sample Analytical Results

RACER Trust, Buick City Site, Flint, Michigan

Location ID:				SB-83/84-02	SB-83/84-02	SB-83/84-03	SB-83/84-03	SB-83/84-04	SB-83/84-05	SB-83/84-05	SB-83/84-06	SB-83/84-06
Sample Depth(ft):				3 - 5	6 - 8	3 - 5	6 - 8	6 - 8	2.4 - 3	3 - 4	3 - 5	6 - 8
Date Collected:	NDC	NPSIC	Units	09/21/12	09/21/12	09/21/12	09/21/12	10/03/12	10/03/12	10/03/12	10/03/12	10/03/12
Inorganic												
Antimony	670		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	37		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	130,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	1,600		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	2,100		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	1,000,000 {(D)}		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	9,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	73,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	250		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	900	44,000	mg/kg	7.08	651	4.84	4.77	**3,090**	65.8	75.4	93.8	4.01
Manganese	90,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	580		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	150,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	9,600		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	9,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	130		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	5,500		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	630,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table Q **AOI 83/84-3 Lead Soil Investigation Data**

Summary of Soil Sample Analytical Results

RACER Trust, Buick City Site, Flint, Michigan

Location ID:				SB-83/84-13	SB-83/84-13	SB-83/84-13	SB-83/84-14	SB-83/84-14	SB-83/84-14	SB-83/84-15	SB-83/84-15	SB-83/84-15
Sample Depth(ft):				2 - 3	3 - 5	6 - 8	1.5 - 3	3 - 5	6 - 8	1.5 - 3	3 - 5	6 - 8
Date Collected:	NDC	NPSIC	Units	04/16/13	04/16/13	04/16/13	04/16/13	04/16/13	04/16/13	04/16/13	04/16/13	04/16/13
Inorganic												
Antimony	670		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	37		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	130,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	1,600		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	2,100		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	1,000,000 {(D)}		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	9,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	73,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	250		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	900	44,000	mg/kg	4.9	3.87	4.49	2.82	4.24	3.24	1.78	4.24	5.66
Manganese	90,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	580		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	150,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	9,600		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	9,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	130		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	5,500		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	630,000		mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table R

AOI 86-1 Soil Impact Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-01 0.5 - 2.5 05/23/01	RFI-86-01 4.5 - 6.5 05/23/01
VOC										
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.038 U	0.037 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.077 U	0.075 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	0.16 U	0.16 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.038 U	0.037 U
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.038 U	0.037 U
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.038 U	0.037 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.16 U	0.16 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.16 U	0.16 U
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.16 U	0.16 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.077 U	0.075 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.038 U	0.037 UJ
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.038 U	0.037 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.077 U	0.075 U
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.077 U	0.075 U
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.27 U	0.27 U
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	0.27 U	0.27 U
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	0.27 U	0.27 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	0.27 U	0.27 U
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.1	0.037 U
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.077 U	0.075 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.077 U	0.075 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.16 U	0.16 UJ
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.16 U	0.16 U
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.038 U	0.037 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.038 U	0.037 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.16 U	0.16 U
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.038 U	0.037 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.16 U	0.16 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.038 U	0.037 UJ
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.037 U
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.16 U	0.012 J
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.077 U	0.075 U
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.077 U	0.075 U
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.18	0.0091 J
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.14 J	0.16 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.82	0.025 J
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.16 U	0.16 U
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.27 U	0.27 U
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	1.5	0.045 J
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.16 U	0.16 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.66	0.018 J
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.038 U	0.037 U
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.011 J	0.037 UJ
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.67	0.037 U
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.038 U	0.037 U

Table R

AOI 86-1 Soil Impact Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-01 0.5 - 2.5 05/23/01	RFI-86-01 4.5 - 6.5 05/23/01
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.038 U	0.037 U
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.038 U	0.037 U
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.077 U	0.075 U
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.038 U	0.037 U
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	0.66	0.018 J
SVOC										
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.0737 J	0.18 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.18 U
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.19 U	0.18 U
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.19 U	0.18 U
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.19 U	0.18 U
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.19 U	0.18 U
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 U	0.72 UJ
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.74 U	0.72 U
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.18 U
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.19 U	0.18 U
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.19 U	0.18 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.658	0.18 U
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.18 U
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 U	0.72 U
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.19 U	0.18 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.37 U	0.37 U
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	0.74 UJ	0.72 U
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 U	0.72 U
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	0.74 U	0.72 U
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.18 U
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.19 U	0.18 U
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 U	0.72 U
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 U	0.72 U
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 U	0.72 U
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.74 U	0.72 U
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.0396 J	0.18 U
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.614	0.18 U
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	0.19 U	0.18 U
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.289	0.18 U
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	0.19 U	0.18 U
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.18 U
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	2.45 J	0.0675 J
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	3.85 J	0.0733 J
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	4.34 JD	0.0776 J
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	4.51 EJ	0.0654 J
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	3.5 J	0.0568 J
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	0.18 U
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.036 U	0.036 U

Table R

AOI 86-1 Soil Impact Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-01 0.5 - 2.5 05/23/01	RFI-86-01 4.5 - 6.5 05/23/01
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.109 J	0.18 U
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	0.378 J	0.18 U
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	0.19 U	0.18 U
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	0.138 J	0.18 U
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	2.95 J	0.0855 J
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	1.33 J	0.18 U
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.231	0.18 U
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.19 U	0.18 U
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.19 U	0.18 U
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.19 U	0.18 U
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.19 UJ	0.18 U
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	2.21	0.123 J
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.0568 J	0.18 U
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.19 U	0.18 U
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.19 U	0.18 U
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.19 U	0.18 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.19 U	0.18 U
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	4.02 J	0.06 J
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.19 U	0.18 U
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.19 U	0.18 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.444	0.18 U
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.074 U	0.072 U
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.19 U	0.18 U
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.19 U	0.18 U
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	0.74 U	0.72 U
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	1.03	0.0632 J
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.19 U	0.18 U
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	5 JD	0.118 J
PCB										
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.038 U
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.038 U
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.038 U
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.038 U
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039 U	0.038 U
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.073	0.038 U
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.039	0.038 U
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.112	0.038 U
Inorganic										
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	0.52	0.39 U
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	**12 J (GSIP (2013),SDBL (2013))**	**7.4 J (GSIP (2013),SDBL (2013))**
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	57 J	16 J
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	0.68 J	0.19 J
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	0.62	0.13
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	17	8.1

Table R

AOI 86-1 Soil Impact Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-01 0.5 - 2.5 05/23/01	RFI-86-01 4.5 - 6.5 05/23/01
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	**5.3 (GSIP (2013))**	**3.6 (GSIP (2013))**
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	**47 (SDBL (2013))**	9.6
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	0.046 J	0.2 U
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	**110 J (SDBL (2013))**	7.7 J
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	**380 J (GSIP (2013))**	**230 J (GSIP (2013))**
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	**0.145 (GSIP (2013),SDBL (2013))**	0.076 U
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	**30 (SDBL (2013))**	9.5
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	**0.89 J (GSIP (2013),SDBL (2013))**	1.6 U
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	**0.21 (GSIP (2013))**	0.057 J
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.31	0.25 U
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	15	14
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	**130 (SDBL (2013))**	33
Miscellaneous										
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	908,000	927,000

Table R

AOI 86-1 Soil Impact Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-01 8.5 - 10.5 05/23/01
VOC									
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.04 U [0.04 U]
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.081 U [0.079 U]
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	0.17 U [0.17 U]
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.04 U [0.04 U]
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.04 U [0.04 U]
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.04 U [0.04 U]
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.17 U [0.17 U]
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.17 U [0.17 U]
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.17 U [0.17 U]
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.081 U [0.079 U]
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.04 UJ [0.04 UJ]
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.04 U [0.04 U]
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.081 U [0.079 U]
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.081 U [0.079 U]
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.29 U [0.28 U]
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	0.29 U [0.28 U]
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	0.29 U [0.28 U]
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	0.29 U [0.28 U]
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.04 U [0.04 U]
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.081 U [0.079 U]
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.081 U [0.079 U]
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.17 UJ [0.17 UJ]
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.17 U [0.17 U]
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.04 U [0.04 U]
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.04 U [0.04 U]
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.17 U [0.17 U]
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.04 U [0.04 U]
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.17 U [0.17 U]
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.04 UJ [0.04 UJ]
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.04 U [0.04 U]
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 UJ [0.17 UJ]
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.081 U [0.079 U]
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.081 U [0.079 U]
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.04 U [0.04 U]
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.17 U [0.17 U]
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.081 U [0.079 U]
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U [0.17 U]
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.29 U [0.28 U]
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U [0.17 U]
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.17 U [0.17 U]
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.04 U [0.04 U]
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.04 U [0.04 U]
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.04 UJ [0.04 UJ]
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.04 U [0.04 U]
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.04 U [0.04 U]

Table R

AOI 86-1 Soil Impact Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-01 8.5 - 10.5 05/23/01
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.04 U [0.04 U]
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.04 U [0.04 U]
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.081 U [0.079 U]
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.04 U [0.04 U]
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	0.04 U [0.04 U]
SVOC									
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.19 U]
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.19 U]
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.19 U [0.19 U]
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.19 U [0.19 U]
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.19 U [0.19 U]
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.19 U [0.19 U]
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.77 UJ [0.76 UJ]
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.77 U [0.76 U]
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.19 U]
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.19 U [0.19 U]
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.19 U [0.19 U]
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.19 U [0.19 U]
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.19 U]
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.77 U [0.76 U]
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.19 U [0.19 U]
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.39 U [0.39 U]
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	0.77 U [0.76 U]
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.77 U [0.76 U]
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	0.77 U [0.76 U]
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.19 U]
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.19 U [0.19 U]
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.77 U [0.76 U]
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.77 U [0.76 U]
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.77 U [0.76 U]
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.77 U [0.76 U]
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.19 U [0.19 U]
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.19 U [0.19 U]
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	0.19 U [0.19 U]
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.19 U [0.19 U]
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	0.19 U [0.19 U]
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.19 U]
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.19 U [0.19 U]
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	0.19 U [0.19 U]
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.19 U [0.19 U]
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	0.19 U [0.19 U]
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	0.19 U [0.19 U]
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.19 U]
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.038 U [0.038 U]

Table R

AOI 86-1 Soil Impact Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-01 8.5 - 10.5 05/23/01
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.19 U [0.19 U]
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	0.19 U [0.19 U]
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	0.19 U [0.19 U]
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	0.19 U [0.19 U]
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	0.19 U [0.19 U]
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	0.19 U [0.19 U]
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.19 U [0.19 U]
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.19 U [0.19 U]
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.19 U [0.19 U]
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.19 U [0.19 U]
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.19 U [0.19 U]
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	0.19 U [0.19 U]
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.19 U [0.19 U]
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.19 U [0.19 U]
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.19 U [0.19 U]
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.19 U [0.19 U]
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.19 U [0.19 U]
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.19 U [0.19 U]
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.19 U [0.19 U]
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.19 U [0.19 U]
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.19 U [0.186 J]
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.077 U [0.076 U]
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.19 U [0.19 U]
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.19 U [0.19 U]
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	0.77 U [0.76 U]
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	0.19 U [0.19 U]
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.19 U [0.19 U]
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	0.19 U [0.19 U]
PCB									
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U [0.04 U]
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U [0.04 U]
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U [0.04 U]
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U [0.04 U]
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U [0.04 U]
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U [0.04 U]
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.04 U [0.04 U]
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.04 U [0.04 U]
Inorganic									
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	0.46 U [0.39 U]
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	3.3 J [3 J]
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	15 J [5.9 J]
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	1.6 J [1.1 J]
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	**4.4 (SDBL (2013)) [1.3 (SDBL (2013))]**
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	8.9 [4.7]

Table R

AOI 86-1 Soil Impact Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-01 8.5 - 10.5 05/23/01
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	**74 (GSIP (2013),SDBL (2013)) [29 (GSIP (2013),SDBL (2013))]**
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	27 [18]
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	0.086 J [0.0071 J]
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	6.4 J [2.9 J]
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	**3,200 J (GSIP (2013),NPSIC (2013),SDBL (2013)) [1,100 J (GSIP (2013),SDBL (2013))]**
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	0.079 U [0.078 U]
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	**75 (SDBL (2013)) [31 (SDBL (2013))]**
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	1.8 U [1.6 U]
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	**0.14 J (GSIP (2013)) [0.18 U]**
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.23 J [0.25 U]
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	13 [5.7]
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	**540 (GSIP (2013),SDBL (2013)) [220 (SDBL (2013))]**
Miscellaneous									
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	873,000 [879,000]

Table R

AOI 86-1 Soil Impact Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-07 0.7 - 2.7 05/23/01
VOC									
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.04 U [0.04 U]
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.079 U [0.08 U]
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	0.17 U [0.17 U]
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.04 U [0.04 U]
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.04 UJ [0.04 U]
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.04 U [0.04 U]
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.17 U [0.17 U]
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.17 U [0.17 U]
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.17 U [0.17 U]
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.079 U [0.08 U]
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.04 U [0.04 UJ]
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.04 U [0.04 U]
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.079 U [0.08 U]
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.079 U [0.08 U]
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.28 U [0.29 U]
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	0.28 U [0.29 U]
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	0.28 U [0.29 U]
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	0.28 U [0.29 U]
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.0074 J [0.04 U]
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.079 U [0.08 U]
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.079 U [0.08 U]
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.17 UJ [0.17 UJ]
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.17 U [0.17 U]
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.04 U [0.04 U]
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.04 U [0.04 U]
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.17 U [0.17 U]
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.04 U [0.04 U]
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.17 U [0.17 U]
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.04 UJ [0.04 UJ]
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.04 U [0.04 U]
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 UJ [0.017 J]
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.079 U [0.08 U]
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.079 U [0.08 U]
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.011 J [0.014 J]
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.17 U [0.02 J]
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.02 J [0.036 J]
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.17 U [0.17 U]
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.28 U [0.29 U]
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.024 J [0.1 J]
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.17 U [0.17 U]
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.014 J [0.031 J]
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.04 U [0.04 U]
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.04 UJ [0.04 UJ]
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.04 U [0.04 U]
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.04 U [0.04 U]

Table R

AOI 86-1 Soil Impact Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-07 0.7 - 2.7 05/23/01
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.04 U [0.04 U]
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.04 U [0.04 U]
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.079 U [0.0063 J]
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.04 U [0.04 U]
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	0.014 J [0.031 J]
SVOC									
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.19 U]
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.19 U]
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.19 U [0.19 U]
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.19 U [0.19 U]
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.19 U [0.19 U]
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.19 U [0.19 U]
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.75 UJ [0.76 U]
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.75 U [0.76 U]
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.19 U]
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.19 U [0.19 U]
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.19 U [0.19 U]
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.19 U [0.19 U]
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.19 U]
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.75 U [0.76 U]
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.19 U [0.19 U]
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.38 U [0.38 U]
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	0.75 U [0.76 U]
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.75 U [0.76 U]
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	0.75 U [0.76 U]
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.19 U]
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.19 U [0.19 U]
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.75 U [0.76 U]
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.75 U [0.76 U]
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.75 U [0.76 U]
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.75 U [0.76 U]
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.19 U [0.19 U]
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.19 U [0.19 U]
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	0.19 U [0.19 U]
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.19 U [0.19 U]
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	0.19 U [0.19 U]
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.19 U]
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.082 J [0.0518 J]
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	0.0705 J [0.0458 J]
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.0616 J [0.19 U]
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	0.0597 J [0.19 U]
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	0.0489 J [0.19 U]
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U [0.19 U]
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.037 U [0.037 UJ]

Table R

AOI 86-1 Soil Impact Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-07 0.7 - 2.7 05/23/01
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.0705 J [0.19 U]
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	0.19 U [0.19 U]
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	0.19 U [0.19 U]
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	0.19 U [0.19 U]
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	0.099 J [0.0578 J]
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	0.19 U [0.19 U]
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.19 U [0.19 U]
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.19 U [0.19 U]
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.19 U [0.19 U]
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.19 U [0.19 U]
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.19 U [0.19 U]
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	0.241 [0.0894 J]
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.19 U [0.19 U]
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.19 U [0.19 U]
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.19 U [0.19 U]
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.19 U [0.19 U]
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.19 U [0.19 U]
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.0515 J [0.19 U]
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.19 U [0.19 U]
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.19 U [0.19 U]
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.19 U [0.039 J]
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.075 U [0.076 U]
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.19 U [0.19 U]
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.19 U [0.19 U]
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	0.75 U [0.76 U]
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	0.173 J [0.112 J]
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.19 U [0.19 U]
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	0.185 J [0.166 J]
PCB									
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.19 U [0.039 U]
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.19 U [0.039 U]
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.19 U [0.039 U]
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.19 U [0.039 U]
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	3.5 [1.6]
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.19 U [0.039 U]
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.19 U [0.039 U]
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	3.5 [1.6]
Inorganic									
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	0.21 J [0.44 U]
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	**110 J (GSIP (2013),NDC (2013),SDBL (2013)) [110 J (GSIP (2013),NDC (2013),SDBL (2013))]**
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	16 J [14 J]
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	0.15 J [0.2 U]
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	0.045 U [0.04 U]
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	5.4 [5.5]

Table R

AOI 86-1 Soil Impact Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-07 0.7 - 2.7 05/23/01
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	0.76 [0.77]
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	13 [15]
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	0.2 U [0.2 U]
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	7.3 J [7.5 J]
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	18 J [18 J]
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	0.077 U [0.079 U]
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	2.5 [2.5]
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	**4.8 (GSIP (2013),SDBL (2013)) [4.8 (GSIP (2013),SDBL (2013))]**
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	**0.17 J (GSIP (2013)) [0.062 J]**
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.13 J [0.097 J]
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	15 [16]
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	18 [20]
Miscellaneous									
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	898,000 [887,000]

Table R

AOI 86-1 Soil Impact Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-07 8.7 - 10.7 05/23/01	RFI-86-10 6.5 - 8.5 11/21/01	RFI-86-11 0.7 - 2.7 11/21/01
VOC											
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.045 U	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.091 U	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	0.19 U	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.045 U	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.045 UJ	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.045 U	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.19 UJ	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.19 U	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.19 U	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.091 U	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.045 U	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.045 U	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.091 U	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.091 U	NA	NA
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.32 U	NA	NA
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	0.32 U	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	0.32 U	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	0.32 U	NA	NA
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.045 U	NA	NA
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.091 U	NA	NA
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.091 U	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.19 UJ	NA	NA
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.19 U	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.045 U	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.045 U	NA	NA
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.19 U	NA	NA
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.045 U	NA	NA
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.19 U	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.045 UJ	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.045 U	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 UJ	NA	NA
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.091 U	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.091 U	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.045 U	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.19 U	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.091 U	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.32 U	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.19 U	NA	NA
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.19 U	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.045 U	NA	NA
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.045 U	NA	NA
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.045 UJ	NA	NA
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.045 U	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.045 U	NA	NA

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RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-07 8.7 - 10.7 05/23/01	RFI-86-10 6.5 - 8.5 11/21/01	RFI-86-11 0.7 - 2.7 11/21/01
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.045 U	NA	NA
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.045 U	NA	NA
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.0078 J	NA	NA
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.045 U	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	0.045 U	NA	NA
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.22 U	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.22 U	NA	NA
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	0.22 U	NA	NA
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	0.22 U	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	0.22 UJ	NA	NA
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	0.22 U	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.85 U	NA	NA
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	0.85 U	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.22 U	NA	NA
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	0.22 U	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	0.22 U	NA	NA
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.22 U	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.22 U	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.85 U	NA	NA
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	0.22 U	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.43 U	NA	NA
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	0.85 U	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.85 U	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	0.85 U	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.22 U	NA	NA
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	0.22 U	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.85 U	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.85 U	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.85 U	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.85 U	NA	NA
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	0.22 U	NA	NA
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	0.22 U	NA	NA
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	0.22 U	NA	NA
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	0.22 U	NA	NA
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	0.22 U	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.22 U	NA	NA
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.22 U	NA	NA
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	0.22 U	NA	NA
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.22 U	NA	NA
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	0.22 U	NA	NA
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	0.22 U	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.22 U	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	0.042 U	NA	NA

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bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	0.22 U	NA	NA
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	0.22 U	NA	NA
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	0.22 U	NA	NA
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	0.22 U	NA	NA
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	0.22 U	NA	NA
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	0.22 U	NA	NA
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	0.22 U	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	0.22 U	NA	NA
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	0.22 U	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	0.22 U	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	0.22 U	NA	NA
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	0.22 U	NA	NA
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	0.22 U	NA	NA
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	0.22 U	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	0.22 U	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	0.22 U	NA	NA
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.22 U	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	0.22 U	NA	NA
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	0.22 U	NA	NA
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	0.22 U	NA	NA
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.22 U	NA	NA
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	0.085 U	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	0.22 U	NA	NA
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	0.22 U	NA	NA
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	0.85 U	NA	NA
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	0.22 U	NA	NA
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	0.22 U	NA	NA
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	0.22 U	NA	NA
PCB											
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	0.045 U	NA	NA
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	0.045 U	NA	NA
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	0.045 U	NA	NA
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	0.045 U	NA	NA
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	0.045 U	NA	NA
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	0.045 U	NA	NA
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	0.045 U	NA	NA
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	0.045 U	NA	NA
Inorganic											
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	0.17 J	NA	NA
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	**9.1 J (GSIP (2013),SDBL (2013))**	NA	**35 (GSIP (2013),SDBL (2013))**
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	**79 J (SDBL (2013))**	NA	NA
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	0.76 J	NA	NA
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	0.15	NA	NA
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	**21 (SDBL (2013))**	NA	NA

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Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	**12 (GSIP (2013),SDBL (2013))**	NA	NA
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	19	NA	NA
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	0.0064 J	NA	NA
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	12 J	NA	NA
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	**640 J (GSIP (2013),SDBL (2013))**	**320 (GSIP (2013))**	NA
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	0.0225 J	NA	NA
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	**30 (SDBL (2013))**	NA	NA
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	2.1 U	NA	NA
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	**0.24 (GSIP (2013))**	NA	NA
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	0.3 J	NA	NA
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	30	NA	NA
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	**56 (SDBL (2013))**	NA	NA
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	786,000	944,000	857,000

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VOC											
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	NA	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	NA	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	NA	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	NA	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	NA	NA	NA
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	NA	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	NA	NA	NA
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	NA	NA	NA
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	NA	NA	NA
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	NA	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	NA	NA	NA
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	NA	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	NA	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	NA	NA	NA
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	NA	NA	NA
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	NA	NA	NA
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	NA	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	NA	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	NA	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	NA	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	NA	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	NA	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	NA	NA	NA
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	NA	NA	NA
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	NA	NA	NA

Table R

AOI 86-1 Soil Impact Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-11 2.7 - 4.7 11/21/01	RFI-86-12 0.8 - 2.8 11/21/01	RFI-86-12 2.8 - 4.8 11/21/01
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	NA	NA	NA
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	NA	NA	NA
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	NA	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	NA	NA	NA
SVOC											
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	NA	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	NA	NA	NA
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	NA	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	NA	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	NA	NA	NA
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	NA	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	NA	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	NA	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	NA	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	NA	NA	NA
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	NA	NA	NA
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	NA	NA	NA
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	NA	NA	NA
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	NA	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	NA	NA	NA
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	NA	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	NA	NA	NA

Table R

AOI 86-1 Soil Impact Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-11 2.7 - 4.7 11/21/01	RFI-86-12 0.8 - 2.8 11/21/01	RFI-86-12 2.8 - 4.8 11/21/01
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	NA	NA	NA
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	NA	NA	NA
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	NA	NA	NA
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	NA	NA	NA
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	NA	NA	NA
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	NA	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	NA	NA	NA
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	NA	NA	NA
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	NA	NA	NA
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	NA	NA	NA
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	NA	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	NA	NA	NA
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	NA	NA	NA
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	NA	NA	NA
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	NA	NA	NA
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	NA	NA	NA
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	NA	NA	NA
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	NA	NA	NA
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	NA	NA	NA
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	NA	NA	NA
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	NA	NA	NA
PCB											
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA	NA
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	NA	NA	NA
Inorganic											
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	NA	NA	NA
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	**8.5 (GSIP (2013),SDBL (2013))**	**56 (GSIP (2013),NDC (2013),SDBL (2013))**	**4.7 (GSIP (2013))**
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	NA	NA	NA
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	NA	NA	NA
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	NA	NA	NA
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	NA	NA	NA

Table R

AOI 86-1 Soil Impact Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-11 2.7 - 4.7 11/21/01	RFI-86-12 0.8 - 2.8 11/21/01	RFI-86-12 2.8 - 4.8 11/21/01
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	NA	NA	NA
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	NA	NA	NA
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	NA	NA	NA
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	NA	NA	NA
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	NA	NA	NA
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	NA	NA	NA
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	NA	NA	NA
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	NA	NA	NA
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	NA	NA	NA
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	NA	NA	NA
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	NA	NA	NA
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	NA	NA	NA
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	899,000	902,000	879,000

Table R

AOI 86-1 Soil Impact Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-13 0.8 - 2.8 11/21/01	RFI-86-13 2.8 - 4.8 11/21/01
VOC										
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	NA	NA
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	NA	NA
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	NA	NA
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	NA	NA
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	NA	NA
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	NA	NA
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	NA	NA
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	NA	NA
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	NA	NA
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	NA	NA
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	NA	NA

Table R

AOI 86-1 Soil Impact Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-13 0.8 - 2.8 11/21/01	RFI-86-13 2.8 - 4.8 11/21/01
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	NA	NA
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	NA	NA
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	NA	NA
SVOC										
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	NA	NA
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	NA	NA
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	NA	NA
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	NA	NA
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	NA	NA
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	NA	NA
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	NA	NA
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	NA	NA
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	NA	NA
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	NA	NA
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	NA	NA
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	NA	NA

Table R

AOI 86-1 Soil Impact Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-13 0.8 - 2.8 11/21/01	RFI-86-13 2.8 - 4.8 11/21/01
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	NA	NA
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	NA	NA
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	NA	NA
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	NA	NA
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	NA	NA
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	NA	NA
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	NA	NA
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	NA	NA
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	NA	NA
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	NA	NA
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	NA	NA
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	NA	NA
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	NA	NA
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	NA	NA
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	NA	NA
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	NA	NA
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	NA	NA
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	NA	NA
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	NA	NA
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	NA	NA
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	NA	NA
PCB										
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	NA	NA
Inorganic										
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	NA	NA
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	**11 (GSIP (2013),SDBL (2013))**	**6.2 (GSIP (2013),SDBL (2013))**
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	NA	NA
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	NA	NA
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	NA	NA
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	NA	NA

Table R

AOI 86-1 Soil Impact Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-13 0.8 - 2.8 11/21/01	RFI-86-13 2.8 - 4.8 11/21/01
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	NA	NA
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	NA	NA
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	NA	NA
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	NA	NA
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	NA	NA
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	NA	NA
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	NA	NA
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	NA	NA
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	NA	NA
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	NA	NA
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	NA	NA
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	NA	NA
Miscellaneous										
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	791,000	827,000

Table R

AOI 86-1 Soil Impact Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-17 1 - 3 03/12/03	RFI-86-18 1 - 3 03/12/03
VOC										
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000	2,300,000,000	9,300	210,000	- -	NA	NA
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	NA	NA
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	NA	NA
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	NA	NA
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	NA	NA
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	NA	NA
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	NA	NA
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	NA	NA
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	NA	NA
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	NA	NA
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	NA	NA
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	NA	NA
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	NA	NA
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	NA	NA
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	NA	NA
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	NA	NA
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	NA	NA
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	NA	NA
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	NA	NA
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	NA	NA
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	NA	NA
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	NA	NA
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	NA	NA
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	NA	NA
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Cyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	NA	NA
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	NA	NA
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	NA	NA
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	NA	NA
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Methyl acetate	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	NA	NA
Methylcyclohexane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	NA	NA
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	NA	NA
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	NA	NA
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	NA	NA
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	NA	NA

Table R

AOI 86-1 Soil Impact Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-17 1 - 3 03/12/03	RFI-86-18 1 - 3 03/12/03
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	NA	NA
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	NA	NA
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	NA	NA
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	NA	NA
SVOC										
1,1'-Biphenyl	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
2,4,5-Trichlorophenol	mg/kg	- -	- -	73,000	10,000,000	- -	- -	- -	NA	NA
2,4,6-Trichlorophenol	mg/kg	- -	0.33	3,300	1,300,000	- -	- -	- -	NA	NA
2,4-Dichlorophenol	mg/kg	1,800	0.33	3,900	2,300,000	- -	- -	- -	NA	NA
2,4-Dimethylphenol	mg/kg	- -	7.6	36,000	2,100,000	- -	- -	- -	NA	NA
2,4-Dinitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
2,4-Dinitrotoluene	mg/kg	- -	- -	220	20,000	- -	- -	- -	NA	NA
2,6-Dinitrotoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
2-Chloronaphthalene	mg/kg	- -	- -	180,000	- -	- -	- -	- -	NA	NA
2-Chlorophenol	mg/kg	19,000	0.36	4,500	530,000	800	1,100	- -	NA	NA
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	NA	NA
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
2-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
2-Nitrophenol	mg/kg	- -	- -	2,000	- -	- -	- -	- -	NA	NA
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
3,3'-Dichlorobenzidine	mg/kg	- -	2	30	8,200	- -	- -	- -	NA	NA
3-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	- -	- -	260	59,000	- -	- -	- -	NA	NA
4-Bromophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
4-Chloro-3-Methylphenol	mg/kg	- -	0.28	15,000	- -	- -	- -	- -	NA	NA
4-Chloroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
4-Chlorophenyl-phenylether	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
4-Nitroaniline	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
4-Nitrophenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Acenaphthene	mg/kg	- -	8.7	130,000	6,200,000	350,000	97,000	- -	NA	NA
Acenaphthylene	mg/kg	- -	- -	5,200	1,000,000	3,000	2,700	- -	NA	NA
Acetophenone	mg/kg	1,100	- -	150,000	14,000,000	210,000	52,000	- -	NA	NA
Anthracene	mg/kg	- -	- -	730,000	29,000,000	1,000,000	1,600,000	- -	NA	NA
Atrazine	mg/kg	- -	0.15	330	- -	- -	- -	- -	NA	NA
Benzaldehyde	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
Benzo(a)anthracene	mg/kg	- -	- -	80	- -	- -	- -	- -	NA	NA
Benzo(a)pyrene	mg/kg	- -	- -	8	1,900	- -	- -	- -	NA	NA
Benzo(b)fluoranthene	mg/kg	- -	- -	80	- -	- -	- -	- -	NA	NA
Benzo(g,h,i)perylene	mg/kg	- -	- -	7,000	350,000	- -	- -	- -	NA	NA
Benzo(k)fluoranthene	mg/kg	- -	- -	800	- -	- -	- -	- -	NA	NA
bis(2-Chloroethoxy)methane	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA
bis(2-Chloroethyl)ether	mg/kg	2,200	0.1	58	12,000	44	13	- -	NA	NA

Table R

AOI 86-1 Soil Impact Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-17 1 - 3 03/12/03	RFI-86-18 1 - 3 03/12/03
bis(2-Ethylhexyl)phthalate	mg/kg	10,000	- -	12,000	890,000	- -	- -	- -	NA	NA
Butylbenzylphthalate	mg/kg	310	120	120,000	21,000,000	- -	- -	- -	NA	NA
Caprolactam	mg/kg	- -	- -	310,000	290,000	- -	- -	- -	NA	NA
Carbazole	mg/kg	- -	1.1	2,400	78,000	- -	- -	- -	NA	NA
Chrysene	mg/kg	- -	- -	8,000	- -	- -	- -	- -	NA	NA
Dibenzo(a,h)anthracene	mg/kg	- -	- -	8	- -	- -	- -	- -	NA	NA
Dibenzofuran	mg/kg	- -	1.7	- -	2,900	3,600	160	- -	NA	NA
Diethylphthalate	mg/kg	740	2.2	550,000	1,500,000	- -	- -	- -	NA	NA
Dimethylphthalate	mg/kg	790	- -	1,000,000	1,500,000	- -	- -	- -	NA	NA
Di-n-Butylphthalate	mg/kg	760	11	87,000	1,500,000	- -	- -	- -	NA	NA
Di-n-Octylphthalate	mg/kg	140,000	- -	20,000	14,000,000	- -	- -	- -	NA	NA
Fluoranthene	mg/kg	- -	5.5	130,000	4,100,000	1,000,000	890,000	- -	NA	NA
Fluorene	mg/kg	- -	5.3	87,000	4,100,000	1,000,000	150,000	- -	NA	NA
Hexachlorobenzene	mg/kg	- -	0.35	37	8,500	220	56	- -	NA	NA
Hexachlorobutadiene	mg/kg	350	0.091	470	180,000	710	460	- -	NA	NA
Hexachlorocyclopentadiene	mg/kg	720	- -	6,700	5,900	56	60	- -	NA	NA
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	- -	- -	80	- -	- -	- -	- -	NA	NA
Isophorone	mg/kg	2,400	26	22,000	8,200,000	- -	- -	- -	NA	NA
Methylphenols, Total	mg/kg	- -	1	36,000	2,900,000	- -	- -	- -	NA	NA
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	NA	NA
Nitrobenzene	mg/kg	490	3.6	340	21,000	170	64	- -	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	1,500	- -	5.4	2,000	- -	- -	- -	NA	NA
N-Nitrosodiphenylamine	mg/kg	- -	- -	7,800	2,800,000	- -	- -	- -	NA	NA
Pentachlorophenol	mg/kg	- -	27	320	130,000	- -	- -	- -	NA	NA
Phenanthrene	mg/kg	- -	2.1	5,200	2,900	5,100	190	- -	NA	NA
Phenol	mg/kg	12,000	9	230,000	18,000,000	- -	- -	- -	NA	NA
Pyrene	mg/kg	- -	- -	84,000	2,900,000	1,000,000	780,000	- -	NA	NA
PCB										
Aroclor-1016	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA
Aroclor-1221	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA
Aroclor-1232	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA
Aroclor-1242	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA
Aroclor-1248	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA
Aroclor-1254	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA
Aroclor-1260	mg/kg	- -	- -	16	- -	- -	- -	- -	NA	NA
Total PCBs	mg/kg	- -	- -	16	6,500	16,000	810	- -	NA	NA
Inorganic										
Antimony	mg/kg	- -	94	670	5,900	- -	- -	- -	NA	NA
Arsenic	mg/kg	- -	4.6	37	910	- -	- -	5.8	**190 J (GSIP (2013),NDC (2013),SDBL (2013))**	**19 J (GSIP (2013),SDBL (2013))**
Barium	mg/kg	- -	850	130,000	150,000	- -	- -	75	NA	NA
Beryllium	mg/kg	- -	400	1,600	590	- -	- -	- -	NA	NA
Cadmium	mg/kg	- -	5.8	2,100	2,200	- -	- -	1.2	NA	NA
Chromium Total	mg/kg	- -	4,900,000	- -	- -	- -	- -	18	NA	NA

Table R

AOI 86-1 Soil Impact Remedy Recommendation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth (ft. bgs): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	RFI-86-17 1 - 3 03/12/03	RFI-86-18 1 - 3 03/12/03
Cobalt	mg/kg	- -	2	9,000	5,900	- -	- -	6.8	NA	NA
Copper	mg/kg	- -	130	73,000	59,000	- -	- -	32	NA	NA
Cyanide (total)	mg/kg	- -	0.1	250	250	- -	- -	0.39	NA	NA
Lead	mg/kg	- -	8,300	900	44,000	- -	- -	21	NA	NA
Manganese	mg/kg	- -	98	90,000	1,500	- -	- -	440	NA	NA
Mercury	mg/kg	- -	0.05	580	8,800	89	62	0.13	NA	NA
Nickel	mg/kg	- -	120	150,000	16,000	- -	- -	20	NA	NA
Selenium	mg/kg	- -	0.4	9,600	59,000	- -	- -	0.41	NA	NA
Silver	mg/kg	- -	0.1	9,000	2,900	- -	- -	1	NA	NA
Thallium	mg/kg	- -	4.2	130	5,900	- -	- -	- -	NA	NA
Vanadium	mg/kg	- -	430	5,500	- -	- -	- -	- -	NA	NA
Zinc	mg/kg	- -	280	630,000	- -	- -	- -	47	NA	NA
Miscellaneous										
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	832,000	876,000

Table S-1

Waste Management Unit #3 Investigation
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WMU-TW-05 05/23/13	WMU-TW-06 05/23/13	WMU-TW-07 05/23/13
VOC							
1,1,1,2-Tetrachloroethane	ug/L	- -	- -	96,000	50 UY	10 UY	5 UY
1,1,1-Trichloroethane	ug/L	- -	89	1,300,000	**1,690 Y (GSI (2013))**	20 Y	25 Y
1,1,2,2-Tetrachloroethane	ug/L	- -	78	77,000	50 UY	10 UY	5 UY
1,1,2-Trichloroethane	ug/L	- -	330	110,000	50 UY	10 UY	5 UY
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	**780 Y (GSI (2013))**	560 Y	675 Y
1,1-Dichloroethene	ug/L	97,000	130	1,300	**310 Y (GSI (2013))**	50 Y	59 Y
1,2,3-Trichlorobenzene	ug/L	- -	- -	- -	300 UY	50 UY	30 UY
1,2,3-Trichloropropane	ug/L	- -	- -	18,000	50 UY	10 UY	5 UY
1,2,3-Trimethylbenzene	ug/L	- -	- -	- -	50 UY	10 UY	5 UY
1,2,4-Trichlorobenzene	ug/L	- -	99	300,000	300 UY	50 UY	30 UY
1,2,4-Trimethylbenzene	ug/L	56,000	17	56,000	50 UY	10 UY	5 UY
1,2-Dibromo-3-chloropropane	ug/L	- -	- -	1,200	300 UY	50 UY	30 UY
1,2-Dibromoethane	ug/L	- -	5.7	15,000	50 UY	10 UY	5 UY
1,2-Dichlorobenzene	ug/L	- -	13	160,000	50 UY	10 UY	5 UY
1,2-Dichloroethane	ug/L	2,500,000	360	59,000	50 UY	10 UY	5 UY
1,2-Dichloropropane	ug/L	550,000	230	36,000	50 UY	10 UY	5 UY
1,3,5-Trimethylbenzene	ug/L	- -	45	61,000	50 UY	10 UY	5 UY
1,3-Dichlorobenzene	ug/L	- -	28	41,000	50 UY	10 UY	5 UY
1,4-Dichlorobenzene	ug/L	- -	17	74,000	50 UY	10 UY	5 UY
1,4-Dioxane	ug/L	140,000,000	2,800	- -	44	99	98
2-Butanone	ug/L	- -	2,200	240,000,000	1,300 UY	250 UY	130 UY
2-Hexanone	ug/L	- -	- -	8,700,000	2,500 UY	500 UY	250 UY
2-Methylnaphthalene	ug/L	- -	19	25,000	300 UY	50 UY	30 UY
4-Methyl-2-pentanone	ug/L	- -	- -	20,000,000	2,500 UY	500 UY	250 UY
Acetone	ug/L	15,000,000	1,700	1,000,000,000	2,500 UY	570 Y	590 Y
Acrylonitrile	ug/L	6,400,000	2	190,000	100 UY	20 UY	10 UY
Benzene	ug/L	68,000	200	35,000	50 UY	10 UY	5 UY
Bromobenzene	ug/L	- -	- -	390,000	50 UY	10 UY	5 UY
Bromochloromethane	ug/L	- -	- -	- -	50 UY	10 UY	5 UY
Bromodichloromethane	ug/L	- -	- -	37,000	50 UY	10 UY	5 UY
Bromoform	ug/L	- -	- -	3,100,000	50 UY	10 UY	5 UY
Bromomethane	ug/L	- -	35	9,000	300 UY	50 UY	30 UY
Carbon Disulfide	ug/L	13,000	- -	550,000	300 UY	50 UY	30 UY
Carbon Tetrachloride	ug/L	- -	45	2,400	50 UY	10 UY	5 UY
Chlorobenzene	ug/L	160,000	25	470,000	50 UY	10 UY	5 UY

Table S-1

Waste Management Unit #3 Investigation
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WMU-TW-05 05/23/13	WMU-TW-06 05/23/13	WMU-TW-07 05/23/13
Chloroethane	ug/L	110,000	1,100	5,700,000	300 UY	130 Y	120 Y
Chloroform	ug/L	- -	350	180,000	50 UY	10 UY	5 UY
Chloromethane	ug/L	36,000	- -	45,000	300 UY	50 UY	30 UY
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	50 UY	10 UY	6 Y
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	50 UY	10 UY	5 UY
Dibromochloromethane	ug/L	- -	- -	110,000	300 UY	50 UY	30 UY
Dibromomethane	ug/L	- -	- -	- -	300 UY	50 UY	30 UY
Dichlorodifluoromethane	ug/L	- -	- -	300,000	300 UY	50 UY	30 UY
Diethyl ether	ug/L	650,000	- -	61,000,000	500 UY	100 UY	50 UY
Ethylbenzene	ug/L	43,000	18	170,000	50 UY	10 UY	5 UY
Hexachloroethane	ug/L	- -	6.7	50,000	300 UY	50 UY	30 UY
Iodomethane	ug/L	- -	- -	- -	50 UY	10 UY	5 UY
Isopropylbenzene	ug/L	29,000	28	56,000	300 UY	50 UY	30 UY
m&p-Xylene	ug/L	- -	- -	- -	100 UY	20 UY	10 UY
Methyl tert-butyl ether	ug/L	- -	7,100	47,000,000	300 UY	50 UY	30 UY
Methylene Chloride	ug/L	- -	1,500	1,400,000	300 UY	50 UY	30 UY
Naphthalene	ug/L	- -	11	31,000	300 UY	50 UY	30 UY
n-Butylbenzene	ug/L	- -	- -	- -	50 UY	10 UY	5 UY
n-Propylbenzene	ug/L	- -	- -	- -	50 UY	10 UY	5 UY
o-Xylene	ug/L	- -	- -	- -	50 UY	10 UY	5 UY
p-Isopropyltoluene	ug/L	- -	- -	- -	300 UY	50 UY	30 UY
sec-Butylbenzene	ug/L	- -	- -	- -	50 UY	10 UY	5 UY
Styrene	ug/L	140,000	80	310,000	50 UY	10 UY	5 UY
tert-Butylbenzene	ug/L	- -	- -	- -	50 UY	10 UY	5 UY
Tetrachloroethene	ug/L	- -	60	170,000	50 UY	30 Y	33 Y
Tetrahydrofuran	ug/L	60,000	11,000	16,000,000	4,500 UY	900 UY	450 UY
Toluene	ug/L	61,000	270	530,000	50 UY	10 UY	5 UY
trans-1,2-Dichloroethene	ug/L	230,000	1,500	200,000	50 UY	10 UY	5 UY
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	50 UY	10 UY	5 UY
trans-1,4-Dichloro-2-butene	ug/L	- -	- -	- -	50 UY	10 UY	5 UY
Trichloroethene	ug/L	- -	200	4,900	50 UY	10 Y	10 Y
Trichlorofluoromethane	ug/L	- -	- -	1,100,000	50 UY	10 UY	5 UY
Vinyl Chloride	ug/L	33,000	13	13,000	50 UY	10 UY	5 UY
Xylenes (total)	ug/L	70,000	41	190,000	50 U	10 U	5 U

Table S-2

Waste Management Unit #3 Investigation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	WMU3A 9 - 10 09/20/12	WMU3A 19 - 20 09/20/12	WMU3B 5 - 6 09/20/12
VOC											
1,1,1,2-Tetrachloroethane	mg/kg	440	- -	2,200	530,000	33	120	- -	0.1 U	0.2 U	0.1 U
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	**2.94 (GSIP (2013))**	**10.14 (GSIP (2013))**	**2.34 (GSIP (2013))**
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.06 U	0.09 U	0.06 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.06 U	0.09 U	0.06 U
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.06 U	0.77	0.96
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.06 U	0.09 U	0.15
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.41 U	0.58 U	0.39 U
1,2,3-Trichloropropane	mg/kg	830	- -	4,200	8,800	7.5	11	- -	0.1 U	0.2 U	0.1 U
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.2 U	0.1 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.41 U	0.58 U	0.39 U
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000	36,000,000	8,000	25,000	- -	0.1 U	0.2 U	0.1 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.3 U	0.4 U	0.3 U
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.02 UM	0.03 UM	0.02 UM
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.1 U	0.2 U	0.1 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.06 U	0.09 U	0.06 U
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.06 U	0.09 U	0.06 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000	36,000,000	4,800	19,000	- -	0.1 U	0.2 U	0.1 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.1 U	0.2 U	0.1 U
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.1 U	0.2 U	0.1 U
1,4-Dioxane	mg/kg	97,000	56	2,400	710,000	- -	- -	- -	NA	NA	NA
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	0.93 U	1.3 U	0.88 U
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	3 U	4 U	3 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.41 U	0.58 U	0.39 U
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	3 U	4 U	3 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	1 U	2 U	1 U
Acrylonitrile	mg/kg	8,300	0.1	74	58,000	35	17	- -	0.1 U	0.2 U	0.1 U
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.06 U	0.09 U	0.06 U
Bromobenzene	mg/kg	760	- -	1,700	240,000	580	540	- -	0.1 U	0.2 U	0.1 U
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.2 U	0.1 U
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.1 U	0.2 U	0.1 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.1 U	0.2 U	0.1 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.2 U	0.3 U	0.2 U
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.3 U	0.4 U	0.3 U
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.06 U	0.09 U	0.06 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.06 U	0.09 U	0.06 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.3 U	0.4 U	0.3 U
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.06 U	0.09 U	0.06 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.3 U	0.4 U	0.3 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.06 U	0.09 U	0.06 U

Table S-2

Waste Management Unit #3 Investigation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	WMU3A 9 - 10 09/20/12	WMU3A 19 - 20 09/20/12	WMU3B 5 - 6 09/20/12
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.09 U	0.06 U
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.1 U	0.2 U	0.1 U
Dibromomethane	mg/kg	2,000	- -	8,000	- -	- -	- -	- -	0.3 U	0.4 U	0.3 U
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.3 U	0.4 U	0.3 U
Diethyl ether	mg/kg	7,400	- -	360,000	350,000,000	52,000	100,000	- -	0.2 U	0.3 U	0.2 U
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.06 U	0.09 U	0.06 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.4 U	0.5 U	0.4 U
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.2 U	0.1 U
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.3 U	0.4 U	0.3 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.2 U	0.1 U
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.2 U	0.3 U	0.2 U
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.1 U	0.2 U	0.1 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.41 U	0.58 U	0.39 U
n-Butylbenzene	mg/kg	10,000	- -	8,000	880,000	- -	- -	- -	0.06 U	0.09 U	0.06 U
n-Propylbenzene	mg/kg	10,000	- -	8,000	590,000	- -	- -	- -	0.1 U	0.2 U	0.1 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.09 U	0.06 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.2 U	0.1 U
sec-Butylbenzene	mg/kg	10,000	- -	8,000	180,000	- -	- -	- -	0.06 U	0.09 U	0.06 U
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.06 U	0.09 U	0.06 U
tert-Butylbenzene	mg/kg	10,000	- -	8,000	290,000	- -	- -	- -	0.06 U	0.09 U	0.06 U
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.09	0.09 U	0.06 U
Tetrahydrofuran	mg/kg	120,000	220	9,500	170,000,000	2,400	15,000	- -	1 U	2 U	1 U
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.1 U	0.2 U	0.1 U
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.06 U	0.09 U	0.06 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.09 U	0.06 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.09 U	0.06 U
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.06 U	0.09 U	0.16
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.1 U	0.2 U	0.1 U
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.06 U	0.09 U	0.06 U
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	0.06 U	0.09 U	0.06 U
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	890,000	810,000	910,000

Table S-2

Waste Management Unit #3 Investigation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	WMU3B 19 - 20 09/20/12	WMU3C 4 - 5 09/20/12	WMU3C 10 - 11 09/20/12	WMU-SB-04 1 - 3 05/23/13
VOC												
1,1,1,2-Tetrachloroethane	mg/kg	440	- -	2,200	530,000	33	120	- -	0.1 U	0.2 U	0.1 U	0.1 U
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	**3.8 (GSIP (2013))**	0.21	0.07 U	**3.67 (GSIP (2013))**
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.07 U	0.08 U	0.07 U	0.06 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.07 U	0.08 U	0.07 U	0.07
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	4.35	0.08 U	0.07 U	0.36
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	**0.36 (NSVIA (2013))**	0.08 U	0.07 U	0.06
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.49 U	0.53 U	0.49 U	0.42 U
1,2,3-Trichloropropane	mg/kg	830	- -	4,200	8,800	7.5	11	- -	0.1 U	0.2 U	0.1 U	0.1 U
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.2 U	0.1 U	0.1 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.49 U	0.53 U	0.49 U	0.42 U
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000	36,000,000	8,000	25,000	- -	0.1 U	0.2 U	0.1 U	0.1 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.4 U	0.4 U	0.4 U	0.3 U
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.03 UM	0.03 UM	0.03 UM	0.03 UM
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.1 U	0.2 U	0.1 U	0.1 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.07 U	0.08 U	0.07 U	0.06 U
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.07 U	0.08 U	0.07 U	0.06 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000	36,000,000	4,800	19,000	- -	0.1 U	0.2 U	0.1 U	0.1 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.1 U	0.2 U	0.1 U	0.1 U
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.1 U	0.2 U	0.1 U	0.1 U
1,4-Dioxane	mg/kg	97,000	56	2,400	710,000	- -	- -	- -	NA	NA	NA	0.3 U
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	1.1 U	1.2 U	1.1 U	0.96 U
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	4 U	4 U	4 U	3 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.49 U	0.53 U	0.49 U	0.42 U
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	4 U	4 U	4 U	3 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	1 U	2 U	1 U	1 U
Acrylonitrile	mg/kg	8,300	0.1	74	58,000	35	17	- -	0.1 U	0.2 U	0.1 U	0.1 U
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.07 U	0.08 U	0.07 U	0.06 U
Bromobenzene	mg/kg	760	- -	1,700	240,000	580	540	- -	0.1 U	0.2 U	0.1 U	0.1 U
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.2 U	0.1 U	0.1 U
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.1 U	0.2 U	0.1 U	0.1 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.1 U	0.2 U	0.1 U	0.1 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.3 U	0.3 U	0.3 U	0.3 U
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.4 U	0.4 U	0.4 U	0.3 U
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.07 U	0.08 U	0.07 U	0.06 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.07 U	0.08 U	0.07 U	0.06 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.4 U	0.4 U	0.4 U	0.3 U
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.07 U	0.08 U	0.07 U	0.06 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.4 U	0.4 U	0.4 U	0.3 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.07 U	0.08 U	0.07 U	0.06 U

Table S-2

Waste Management Unit #3 Investigation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	WMU3B 19 - 20 09/20/12	WMU3C 4 - 5 09/20/12	WMU3C 10 - 11 09/20/12	WMU-SB-04 1 - 3 05/23/13
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.07 U	0.08 U	0.07 U	0.06 U
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.1 U	0.2 U	0.1 U	0.1 U
Dibromomethane	mg/kg	2,000	- -	8,000	- -	- -	- -	- -	0.4 U	0.4 U	0.4 U	0.3 U
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.4 U	0.4 U	0.4 U	0.3 U
Diethyl ether	mg/kg	7,400	- -	360,000	350,000,000	52,000	100,000	- -	0.3 U	0.3 U	0.3 U	0.3 U
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.07 U	0.08 U	0.07 U	0.06 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.4 U	0.5 U	0.4 U	0.4 U
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.2 U	0.1 U	0.1 U
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.4 U	0.4 U	0.4 U	0.3 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.2 U	0.1 U	0.1 U
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.3 U	0.3 U	0.3 U	0.3 U
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.1 U	0.2 U	0.1 U	0.1 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.49 U	0.53 U	0.49 U	0.42 U
n-Butylbenzene	mg/kg	10,000	- -	8,000	880,000	- -	- -	- -	0.07 U	0.08 U	0.07 U	0.06 U
n-Propylbenzene	mg/kg	10,000	- -	8,000	590,000	- -	- -	- -	0.1 U	0.2 U	0.1 U	0.1 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.07 U	0.08 U	0.07 U	0.06 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.2 U	0.1 U	0.1 U
sec-Butylbenzene	mg/kg	10,000	- -	8,000	180,000	- -	- -	- -	0.07 U	0.08 U	0.07 U	0.06 U
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.07 U	0.08 U	0.07 U	0.06 U
tert-Butylbenzene	mg/kg	10,000	- -	8,000	290,000	- -	- -	- -	0.07 U	0.08 U	0.07 U	0.06 U
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.07 U	0.08 U	0.07 U	0.08
Tetrahydrofuran	mg/kg	120,000	220	9,500	170,000,000	2,400	15,000	- -	1 U	2 U	1 U	1 U
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.1 U	0.2 U	0.1 U	0.1 U
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.07 U	0.08 U	0.07 U	0.06 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.07 U	0.08 U	0.07 U	0.06 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.07 U	0.08 U	0.07 U	0.06 U
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.07 U	**3.58 (NSVIA (2013))**	0.14	0.16
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.1 U	0.2 U	0.1 U	0.1 U
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.07 U	0.08 U	0.07 U	0.06 U
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	0.07 U	0.08 U	0.07 U	0.06 U
Miscellaneous												
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	810,000	830,000	800,000	860,000

Table S-2 **Waste Management Unit #3 Investigation**
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	WMU-SB-04 8 - 10 05/23/13	WMU-TW-05 2 - 4 05/23/13	WMU-TW-05 8 - 10 05/23/13	WMU-TW-06 1 - 3 05/23/13	WMU-TW-06 8 - 10 05/23/13
VOC													
1,1,1,2-Tetrachloroethane	mg/kg	440	- -	2,200	530,000	33	120	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000	29,000,000	460	4,500	- -	0.24	0.33	0.08	0.14	0.06 U
1,1,2,2-Tetrachloroethane	mg/kg	870	1.6	240	68,000	23	34	- -	0.07 U	0.07 U	0.07 U	0.06 U	0.06 U
1,1,2-Trichloroethane	mg/kg	920	6.6	840	250,000	24	57	- -	0.07 U	0.07 U	0.07 U	0.06 U	0.06 U
1,1-Dichloroethane	mg/kg	890	15	87,000	15,000,000	430	2,500	- -	0.07 U	0.13	0.07 U	1.52	0.97
1,1-Dichloroethene	mg/kg	570	2.6	660	78,000	0.33	3.7	- -	0.07 U	0.07 U	0.07 U	0.08	0.06
1,2,3-Trichlorobenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.44 U	0.49 U	0.44 U	0.38 U	0.38 U
1,2,3-Trichloropropane	mg/kg	830	- -	4,200	8,800	7.5	11	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2,3-Trimethylbenzene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2,4-Trichlorobenzene	mg/kg	1,100	5.9	5,800	11,000,000	18,000	34,000	- -	0.44 U	0.49 U	0.44 U	0.38 U	0.38 U
1,2,4-Trimethylbenzene	mg/kg	110	0.57	100,000	36,000,000	8,000	25,000	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dibromo-3-chloropropane	mg/kg	1.2	- -	20	700	1.2	0.9	- -	0.3 U	0.4 U	0.3 U	0.3 U	0.3 U
1,2-Dibromoethane	mg/kg	890	0.11	0.43	18,000	3.6	5.8	- -	0.03 UM	0.03 UM	0.03 UM	0.02 UM	0.02 UM
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000	44,000,000	20,000	46,000	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dichloroethane	mg/kg	1,200	7.2	420	150,000	11	21	- -	0.07 U	0.07 U	0.07 U	0.06 U	0.06 U
1,2-Dichloropropane	mg/kg	550	4.6	660	120,000	7.4	30	- -	0.07 U	0.07 U	0.07 U	0.06 U	0.06 U
1,3,5-Trimethylbenzene	mg/kg	94	1.1	100,000	36,000,000	4,800	19,000	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,3-Dichlorobenzene	mg/kg	170	0.68	660	88,000	48	94	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,4-Dichlorobenzene	mg/kg	- -	0.36	1,900	570,000	100	260	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,4-Dioxane	mg/kg	97,000	56	2,400	710,000	- -	- -	- -	0.3 U	0.4 U	0.3 U	0.3 U	0.3 U
2-Butanone	mg/kg	27,000	44	700,000	29,000,000	99,000	35,000	- -	1 U	1.1 U	0.99 U	0.86 U	0.86 U
2-Hexanone	mg/kg	2,500	- -	100,000	1,200,000	1,800	1,300	- -	3 U	4 U	3 U	3 U	3 U
2-Methylnaphthalene	mg/kg	- -	4.2	26,000	290,000	4,900	1,800	- -	0.44 U	0.49 U	0.44 U	0.38 U	0.38 U
4-Methyl-2-pentanone	mg/kg	2,700	- -	180,000	60,000,000	69,000	53,000	- -	3 U	4 U	3 U	3 U	3 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000	160,000	- -	1 U	1 U	1 U	1 U	1 U
Acrylonitrile	mg/kg	8,300	0.1	74	58,000	35	17	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzene	mg/kg	400	4	840	470,000	8.4	45	- -	0.07 U	0.07 U	0.07 U	0.06 U	0.06 U
Bromobenzene	mg/kg	760	- -	1,700	240,000	580	540	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromochloromethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromodichloromethane	mg/kg	1,500	- -	490	110,000	6.4	31	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromoform	mg/kg	870	- -	3,800	3,600,000	770	3,100	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bromomethane	mg/kg	2,200	0.7	1,000	150,000	1.6	13	- -	0.3 U	0.3 U	0.3 U	0.2 U	0.2 U
Carbon Disulfide	mg/kg	280	- -	43,000	21,000,000	140	1,600	- -	0.3 U	0.4 U	0.3 U	0.3 U	0.3 U
Carbon Tetrachloride	mg/kg	390	0.9	440	170,000	0.99	12	- -	0.07 U	0.07 U	0.07 U	0.06 U	0.06 U
Chlorobenzene	mg/kg	260	0.5	14,000	2,100,000	220	920	- -	0.07 U	0.07 U	0.07 U	0.06 U	0.06 U
Chloroethane	mg/kg	950	22	12,000	290,000,000	5,300	36,000	- -	0.3 U	0.4 U	0.3 U	0.3 U	0.3 U
Chloroform	mg/kg	1,500	7	5,500	1,600,000	38	150	- -	0.07 U	0.07 U	0.07 U	0.06 U	0.06 U
Chloromethane	mg/kg	1,100	- -	7,400	2,600,000	10	120	- -	0.3 U	0.4 U	0.3 U	0.3 U	0.3 U
cis-1,2-Dichloroethene	mg/kg	640	12	8,000	1,000,000	41	210	- -	0.07 U	0.07 U	0.07 U	0.06 U	0.07

Table S-2

Waste Management Unit #3 Investigation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	WMU-SB-04 8 - 10 05/23/13	WMU-TW-05 2 - 4 05/23/13	WMU-TW-05 8 - 10 05/23/13	WMU-TW-06 1 - 3 05/23/13	WMU-TW-06 8 - 10 05/23/13
cis-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.07 U	0.07 U	0.07 U	0.06 U	0.06 U
Dibromochloromethane	mg/kg	610	- -	500	160,000	21	80	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dibromomethane	mg/kg	2,000	- -	8,000	- -	- -	- -	- -	0.3 U	0.4 U	0.3 U	0.3 U	0.3 U
Dichlorodifluoromethane	mg/kg	1,000	- -	170,000	1,500,000,000	1,700	63,000	- -	0.3 U	0.4 U	0.3 U	0.3 U	0.3 U
Diethyl ether	mg/kg	7,400	- -	360,000	350,000,000	52,000	100,000	- -	0.3 U	0.3 U	0.3 U	0.2 U	0.2 U
Ethylbenzene	mg/kg	140	0.36	71,000	13,000,000	460	2,400	- -	0.07 U	0.07 U	0.07 U	0.06 U	0.06 U
Hexachloroethane	mg/kg	- -	1.8	730	100,000	79	660	- -	0.4 U	0.4 U	0.4 U	0.3 U	0.3 U
Iodomethane	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Isopropylbenzene	mg/kg	390	3.2	80,000	2,600,000	730	2,000	- -	0.3 U	0.4 U	0.3 U	0.3 U	0.3 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Methyl tert-butyl ether	mg/kg	5,900	140	7,100	88,000,000	18,000	30,000	- -	0.3 U	0.3 U	0.3 U	0.2 U	0.2 U
Methylene Chloride	mg/kg	2,300	30	5,800	8,300,000	240	700	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Naphthalene	mg/kg	- -	0.73	52,000	88,000	470	350	- -	0.44 U	0.49 U	0.44 U	0.38 U	0.38 U
n-Butylbenzene	mg/kg	10,000	- -	8,000	880,000	- -	- -	- -	0.07 U	0.07 U	0.07 U	0.06 U	0.06 U
n-Propylbenzene	mg/kg	10,000	- -	8,000	590,000	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.07 U	0.07 U	0.07 U	0.06 U	0.06 U
p-Isopropyltoluene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
sec-Butylbenzene	mg/kg	10,000	- -	8,000	180,000	- -	- -	- -	0.07 U	0.07 U	0.07 U	0.06 U	0.06 U
Styrene	mg/kg	520	2.1	1,900	6,900,000	1,300	3,300	- -	0.07 U	0.07 U	0.07 U	0.06 U	0.06 U
tert-Butylbenzene	mg/kg	10,000	- -	8,000	290,000	- -	- -	- -	0.07 U	0.07 U	0.07 U	0.06 U	0.06 U
Tetrachloroethene	mg/kg	88	1.2	930	1,200,000	21	210	- -	0.07 U	0.07 U	0.07 U	0.06 U	0.06 U
Tetrahydrofuran	mg/kg	120,000	220	9,500	170,000,000	2,400	15,000	- -	1 U	1 U	1 U	1 U	1 U
Toluene	mg/kg	250	5.4	160,000	12,000,000	610	3,300	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
trans-1,2-Dichloroethene	mg/kg	1,400	30	12,000	2,100,000	43	330	- -	0.07 U	0.07 U	0.07 U	0.06 U	0.06 U
trans-1,3-Dichloropropene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.07 U	0.07 U	0.07 U	0.06 U	0.06 U
trans-1,4-Dichloro-2-butene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.07 U	0.07 U	0.07 U	0.06 U	0.06 U
Trichloroethene	mg/kg	500	4	660	59,000	1.9	14	- -	0.07 U	0.7	0.07 U	0.06 U	0.07
Trichlorofluoromethane	mg/kg	560	- -	260,000	1,700,000,000	5,100	110,000	- -	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Vinyl Chloride	mg/kg	490	0.26	34	890,000	2.8	29	- -	0.07 U	0.07 U	0.07 U	0.06 U	0.06 U
Xylenes (total)	mg/kg	150	0.82	1,000,000	130,000,000	12,000	54,000	- -	0.07 U	0.07 U	0.07 U	0.06 U	0.06 U
Miscellaneous													
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	850,000	860,000	880,000	950,000	910,000

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Waste Management Unit #7 Investigation
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	40-6 09/18/01	40-6R 04/23/03	40-6R 10/05/04
VOC								
1,1,1-Trichloroethane	ug/L	{ID}	89	1,300,000 {(S)}	1,330,000	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	{ID}	78 {(X)}	77,000	2,970,000	1 U	1 U	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	32	170,000 {(S)}	170,000	1 U	1 U	30 U
1,1,2-Trichloroethane	ug/L	{NA}	330 {(X)}	110,000	4,420,000	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	1 U	1 U	1 U
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	1 U	1 U	1 U
1,2,4-Trichlorobenzene	ug/L	{NA}	99 {(X)}	300,000 {(S)}	300,000	5 U	5 U	2 U
1,2-Dibromo-3-chloropropane	ug/L	{NA}	{ID}	1,200 {(S)}	1,230	1 U	1 U	1 U
1,2-Dibromoethane	ug/L	{ID}	5.7 {(X)}	15,000	4,200,000	1 U	1 U	1 U
1,2-Dichlorobenzene	ug/L	{NA}	13	160,000 {(S)}	156,000	1 U	1 U	1 U
1,2-Dichloroethane	ug/L	2,500,000	360 {(X)}	59,000	8,520,000	1 U	1 U	1 U
1,2-Dichloropropane	ug/L	550,000	230 {(X)}	36,000	2,800,000	1 U	1 U	1 U
1,3-Dichlorobenzene	ug/L	{ID}	28	41,000	111,000	1 U	1 U	1 U
1,4-Dichlorobenzene	ug/L	{NA}	17	74,000 {(S)}	73,800	1 U	1 U	1 U
2-Butanone	ug/L	{ID}	2,200	240,000,000 {(S)}	240,000,000	25 U	25 U	30 U
2-Hexanone	ug/L	{NA}	{ID}	8,700,000	16,000,000	50 U	50 U	50 U
4-Methyl-2-pentanone	ug/L	{ID}	{ID}	20,000,000 {(S)}	20,000,000	50 U	50 U	1 U
Acetone	ug/L	15,000,000	1,700	1,000,000,000 {(D,S)}	1,000,000,000	25 U	1.9 J	30 U
Benzene	ug/L	68,000	200 {(X)}	35,000	1,750,000	1 U	1 U	1 U
Bromodichloromethane	ug/L	{ID}	{ID}	37,000	6,740,000	1 U	1 U	1 U
Bromoform	ug/L	{ID}	{ID}	3,100,000 {(S)}	3,100,000	1 U	1 U	1 UJ
Bromomethane	ug/L	{ID}	35	9,000	14,500,000	1 U	1 U	2 UJ
Carbon Disulfide	ug/L	13,000	{ID}	550,000	1,190,000	5 U	5 U	5 U
Carbon Tetrachloride	ug/L	{ID}	45 {(X)}	2,400	793,000	1 U	1 U	1 U
Chlorobenzene	ug/L	160,000	25	470,000 {(S)}	472,000	1 U	1 U	1 U
Chloroethane	ug/L	110,000	1,100 {(X)}	5,700,000 {(S)}	5,740,000	1 U	1 U	1 UJ
Chloroform	ug/L	{ID}	350	180,000	7,920,000	1 U	1 U	1 U
Chloromethane	ug/L	36,000	{ID}	45,000	6,340,000	1 U	1 U	1 U
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	1 U	1 U	1 U
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U
Cyclohexane	ug/L	- -	- -	- -	- -	5 U	5 U	1 U
Dibromochloromethane	ug/L	{ID}	{ID}	110,000	2,600,000	1 U	1 U	1 U
Dichlorodifluoromethane	ug/L	{ID}	{ID}	300,000 {(S)}	300,000	1 U	1 U	1 U
Ethylbenzene	ug/L	43,000	18	170,000 {(S)}	169,000	1 U	1 U	1 U
Isopropylbenzene	ug/L	29,000	28	56,000 {(S)}	56,000	5 U	5 U	1 U
m&p-Xylene	ug/L	- -	- -	- -	- -	2 U	2 U	1 U
Methyl acetate	ug/L	- -	- -	- -	- -	5 U	5 U	10 U
Methyl tert-butyl ether	ug/L	{ID}	7,100 {(X)}	47,000,000 {(S)}	46,800,000	5 U	5 U	5 U
Methylcyclohexane	ug/L	- -	- -	- -	- -	1 U	1 U	20 U
Methylene Chloride	ug/L	{ID}	1,500 {(X)}	1,400,000	17,000,000	5 U	5 U	5 U
o-Xylene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U
Styrene	ug/L	140,000	80 {(X)}	310,000 {(S)}	310,000	1 U	1 U	1 U
Tetrachloroethene	ug/L	{ID}	60 {(X)}	170,000	200,000	1 U	1 U	1 U
Toluene	ug/L	61,000	270	530,000 {(S)}	526,000	1 U	1 U	1 U

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Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	40-6 09/18/01	40-6R 04/23/03	40-6R 10/05/04
trans-1,2-Dichloroethene	ug/L	230,000	1,500 {(X)}	200,000	6,300,000	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U
Trichloroethene	ug/L	{ID}	200 {(X)}	4,900	1,100,000	1 U	1 U	0.3 J
Trichlorofluoromethane	ug/L	{ID}	{NA}	1,100,000 {(S)}	1,100,000	1 U	1 U	1 U
Vinyl Chloride	ug/L	33,000	13 {(X)}	13,000	2,760,000	1 U	1 U	1 U
Xylenes (total)	ug/L	70,000	41	190,000 {(S)}	186,000	1 U	1 U	1 U
SVOC								
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	5.3 U	NA	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	5.3 U	NA	NA
2,4,5-Trichlorophenol	ug/L	{ID}	{NA}	{NLV}	1,200,000	5.3 U	NA	NA
2,4,6-Trichlorophenol	ug/L	{ID}	5	{NLV}	800,000	4.2 U	NA	NA
2,4-Dichlorophenol	ug/L	{ID}	11	{NLV}	4,500,000	11 U	NA	NA
2,4-Dimethylphenol	ug/L	{ID}	380	{NLV}	7,870,000	5.3 U	NA	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	21 UJ	NA	NA
2,4-Dinitrotoluene	ug/L	{ID}	{NA}	{NLV}	270,000	5.3 U	NA	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	5.3 U	NA	NA
2-Chloronaphthalene	ug/L	{ID}	{NA}	{ID}	6,740	5.3 U	NA	NA
2-Chlorophenol	ug/L	{ID}	18	1,100,000	22,000,000	5.3 U	NA	NA
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	5.3 U	NA	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	5.3 U	NA	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	21 U	NA	NA
2-Nitrophenol	ug/L	{ID}	{ID}	{NLV}	2,500,000	5.3 U	NA	NA
3&4-Methylphenol	ug/L	- -	- -	- -	- -	11 UJ	NA	NA
3,3'-Dichlorobenzidine	ug/L	{ID}	0.3 {(M); 0.2}	{NLV}	3,110	**21 U**	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	21 U	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	21 U	NA	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	5.3 U	NA	NA
4-Chloro-3-Methylphenol	ug/L	{ID}	7.4	{NLV}	3,900,000	5.3 U	NA	NA
4-Chloroaniline	ug/L	- -	- -	- -	- -	21 U	NA	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	R	NA	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	21 U	NA	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	21 U	NA	NA
Acenaphthene	ug/L	{ID}	38	4,200 {(S)}	4,240	5.3 U	NA	NA
Acenaphthylene	ug/L	{ID}	{ID}	3,900 {(S)}	3,930	5.3 U	NA	NA
Acetophenone	ug/L	{ID}	{ID}	6,100,000 {(S)}	6,100,000	5.3 U	NA	NA
Anthracene	ug/L	{ID}	{ID}	43 {(S)}	43.4	5.3 U	NA	NA
Atrazine	ug/L	{ID}	7.3	{NLV}	70,000	5.3 U	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	5.3 U	NA	NA
Benzo(a)anthracene	ug/L	{ID}	{ID}	{NLV}	9.4	1.1 U	NA	NA
Benzo(a)pyrene	ug/L	{ID}	{ID}	{NLV}	1.62	**2.1 U**	NA	NA
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	{ID}	1.5	**2.1 U**	NA	NA
Benzo(g,h,i)perylene	ug/L	{ID}	{ID}	{NLV}	0.26	**5.3 U**	NA	NA
Benzo(k)fluoranthene	ug/L	{ID}	{NA}	{NLV}	0.8	**5.3 U**	NA	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	5.3 U	NA	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	1 {(M); 0.79}	210,000	17,200,000	**1.1 U**	NA	NA

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RACER Trust, Buick City Site, Flint, Michigan

Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	40-6 09/18/01	40-6R 04/23/03	40-6R 10/05/04
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	25	{NLV}	340	5.3 U	NA	NA
Butylbenzylphthalate	ug/L	{ID}	67 {(X)}	{NLV}	2,690	5.3 U	NA	NA
Caprolactam	ug/L	{NA}	{NA}	{NLV}	5,250,000,000	11 U	NA	NA
Carbazole	ug/L	{ID}	10 {(M); 4.0}	{NLV}	7,480	**11 U**	NA	NA
Chrysene	ug/L	{ID}	{ID}	{ID}	1.6	**5.3 U**	NA	NA
Dibenzo(a,h)anthracene	ug/L	{ID}	{ID}	{NLV}	2.49	2.1 U	NA	NA
Dibenzofuran	ug/L	{ID}	4	10,000 {(S)}	10,000	**4.2 U**	NA	NA
Diethylphthalate	ug/L	{NA}	110	{NLV}	1,080,000	5.3 U	NA	NA
Dimethylphthalate	ug/L	{NA}	{NA}	{NLV}	4,190,000	5.3 U	NA	NA
Di-n-Butylphthalate	ug/L	{NA}	9.7	{NLV}	11,200	5.3 U	NA	NA
Di-n-Octylphthalate	ug/L	{ID}	{ID}	{NLV}	3,000	5.3 U	NA	NA
Fluoranthene	ug/L	{ID}	1.6	210 {(S)}	206	**2.1 U**	NA	NA
Fluorene	ug/L	{ID}	12	2,000 {(S)}	1,980	5.3 U	NA	NA
Hexachlorobenzene	ug/L	{ID}	0.2 {(M); 0.0003}	3,000	6,200	**1.1 U**	NA	NA
Hexachlorobutadiene	ug/L	{ID}	0.053	3,200 {(S)}	3,230	**5.3 U**	NA	NA
Hexachlorocyclopentadiene	ug/L	{ID}	{ID}	420	1,800	5.3 U	NA	NA
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	5.3 U	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{ID}	{NLV}	0.022	**2.1 U**	NA	NA
Isophorone	ug/L	{ID}	1,300 {(X)}	{NLV}	12,000,000	5.3 U	NA	NA
Methylphenols, Total	ug/L	{NA}	30 {(M); 25}	{NLV}	28,000,000	5.3 U	NA	NA
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	5.3 U	NA	NA
Nitrobenzene	ug/L	{NA}	180 {(X)}	550,000	2,090,000	2.1 U	NA	NA
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NA}	{NLV}	9,890,000	5.3 U	NA	NA
N-Nitrosodiphenylamine	ug/L	{ID}	{NA}	{NLV}	35,100	5.3 U	NA	NA
Pentachlorophenol	ug/L	{ID}	2.8 {(G,X)}	{NLV}	1,850,000	**21 U**	NA	NA
Phenanthrene	ug/L	{ID}	2 {(M); 1.4}	1,000 {(S)}	1,000	**5.3 U**	NA	NA
Phenol	ug/L	{NA}	450	{NLV}	82,800,000	5.3 U	NA	NA
Pyrene	ug/L	{ID}	{ID}	140 {(S)}	135	5.3 U	NA	NA
PCB								
Aroclor-1016	ug/L	- -	- -	- -	- -	0.11 U	NA	NA
Aroclor-1221	ug/L	- -	- -	- -	- -	0.11 U	NA	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	0.11 U	NA	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	0.11 U	NA	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	0.18	NA	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	0.11 U	NA	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	0.11 U	NA	NA
Total PCBs	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	0.18	NA	NA
PCB-Dissolved								
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	NA	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	0.11 U	NA	NA

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Location ID: Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	40-6 09/18/01	40-6R 04/23/03	40-6R 10/05/04
Total PCBs (Dissolved)	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	0.11 U	NA	NA
Inorganic								
Antimony	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	NA	2.8	NA
Arsenic	ug/L	{ID}	10	{NLV}	{NA}	NA	1 U	2 U
Barium	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	NA	35	NA
Beryllium	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	NA	0.4 U	NA
Cadmium	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	NA	0.078 J	NA
Chromium Total	ug/L	- -	170 {(G,X)}	- -	- -	NA	3.2	NA
Cobalt	ug/L	{ID}	100	{NLV}	{NA}	NA	0.48	NA
Copper	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	NA	3.4	NA
Cyanide (total)	ug/L	{ID}	5.2	{NLV}	{NA}	**430 (GSI (2013))**	**24 (GSI (2013))**	**24 (GSI (2013))**
Lead	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	NA	2	3 U
Manganese	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	NA	270	NA
Mercury	ug/L	{ID}	0.0013	56 {(S)}	56	**0.2 U**	**0.2 U**	NA
Nickel	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	NA	4.8	NA
Selenium	ug/L	{ID}	5	{NLV}	{NA}	NA	1.6 U	NA
Silver	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	NA	**0.4 UJ**	NA
Thallium	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	NA	0.2 U	NA
Vanadium	ug/L	{ID}	27	{NLV}	{NA}	NA	0.29 J	NA
Zinc	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	NA	8.6	NA
Inorganic-Dissolved								
Antimony (Dissolved)	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	1.2 U	NA	NA
Arsenic (Dissolved)	ug/L	{ID}	10	{NLV}	{NA}	1 U	NA	NA
Barium (Dissolved)	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	26	NA	NA
Beryllium (Dissolved)	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	0.4 U	NA	NA
Cadmium (Dissolved)	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	0.2 U	NA	NA
Chromium Total (Dissolved)	ug/L	- -	170 {(G,X)}	- -	- -	0.6 U	NA	NA
Cobalt (Dissolved)	ug/L	{ID}	100	{NLV}	{NA}	2.3	NA	NA
Copper (Dissolved)	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	5.1	NA	NA
Cyanide (dissolved)	ug/L	{ID}	5.2	{NLV}	{NA}	**440 J (GSI (2013))**	NA	NA
Lead (Dissolved)	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	0.4 U	NA	NA
Manganese (Dissolved)	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	860	NA	NA
Mercury (Dissolved)	ug/L	- -	0.0013	- -	- -	**0.2 U**	NA	NA
Nickel (Dissolved)	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	7.4	NA	NA
Selenium (Dissolved)	ug/L	{ID}	5	{NLV}	{NA}	1.4	NA	NA
Silver (Dissolved)	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	**0.4 UJ**	NA	NA
Thallium (Dissolved)	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	0.2 U	NA	NA
Vanadium (Dissolved)	ug/L	{ID}	27	{NLV}	{NA}	0.8 U	NA	NA
Zinc (Dissolved)	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	20	NA	NA

Table T-2

Waste Management Unit #7 Investigation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	WMU7_SB1 15.5 - 16 01/23/12	WMU7_SB2 14.5 - 15 01/23/12	WMU7_SB3 15.5 - 16 01/24/12
VOC											
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.07 U	0.07 U	0.07 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.07 U	0.07 U	0.07 U
SVOC											
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.3 U	0.3 U	0.3 U
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.3 U	0.3 U	0.3 U
Pyridine	mg/kg	37	{NA}	730 {(C)}	100,000	2	9.8	{NA}	0.3 U	0.3 U	0.3 U
Volatile Organics											
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.07 U	0.07 U	0.07 U
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.07 U	0.07 U	0.07 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.07 U	0.07 U	0.07 U
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	7 U	7 U	7 U
2-Ethanoxyethanol	mg/kg	- -	- -	- -	- -	- -	- -	- -	1 U	1 U	1 U
2-Nitropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	7 U	7 U	7 U
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	7 U	7 U	7 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	7 U	7 U	7 U
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.07 U	0.07 U	0.07 U
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	7 U	7 U	7 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.07 U	0.07 U	0.07 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.07 U	0.07 U	0.07 U
Cyclohexanone	mg/kg	220,000	{NA}	1,000,000 {(C,D)}	29,000,000	32	1,300	{NA}	7 U	7 U	7 U
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	7 U	7 U	7 U
Ethyl acetate	mg/kg	7,500	{NA}	660,000 {(C)}	94,000,000	70,000 {(C)}	59,000	{NA}	7 U	7 U	7 U
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.07 U	0.07 U	0.07 U
Isobutanol	mg/kg	8,900	{NA}	230,000 {(C)}	44,000,000	430,000 {(C)}	95,000	{NA}	70 U	70 U	70 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.07 U	0.07 U	0.07 U
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.07 U	0.07 U	0.07 U
n-Butanol	mg/kg	8,700	200	95,000 {(C)}	10,000,000	{NLV}	{NLV}	{NA}	70 U	70 U	70 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.07 U	0.07 U	0.07 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.07 U	0.07 U	0.07 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.07 U	0.07 U	0.07 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.07 U	0.07 U	0.07 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.07 U	0.07 U	0.07 U
TPH											
Methanol	mg/kg	3,100	12,000 {(C)}	360,000 {(C)}	96,000,000	67,000 {(C)}	37,000	{NA}	13 O	10 O	10 O
Miscellaneous											
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	850,000	840,000	810,000

Table U-1

Waste Management Unit #10 Investigation
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	04-1 09/14/01	04-1 12/14/01	04-2 09/17/01	04-2 12/14/01	04-3 09/17/01	04-3 10/26/10	04-3 10/21/11
VOC												
1,1,1-Trichloroethane	ug/L	{ID}	89	1,300,000 {(S)}	1,330,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
1,1,2,2-Tetrachloroethane	ug/L	{ID}	78 {(X)}	77,000	2,970,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	32	170,000 {(S)}	170,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
1,1,2-Trichloroethane	ug/L	{NA}	330 {(X)}	110,000	4,420,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
1,2,4-Trichlorobenzene	ug/L	{NA}	99 {(X)}	300,000 {(S)}	300,000	5 U	NA	5 U [5 U]	NA	5 U	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	{NA}	{ID}	1,200 {(S)}	1,230	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
1,2-Dibromoethane	ug/L	{ID}	5.7 {(X)}	15,000	4,200,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
1,2-Dichlorobenzene	ug/L	{NA}	13	160,000 {(S)}	156,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
1,2-Dichloroethane	ug/L	2,500,000	360 {(X)}	59,000	8,520,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
1,2-Dichloropropane	ug/L	550,000	230 {(X)}	36,000	2,800,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
1,3-Dichlorobenzene	ug/L	{ID}	28	41,000	111,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
1,4-Dichlorobenzene	ug/L	{NA}	17	74,000 {(S)}	73,800	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
2-Butanone	ug/L	{ID}	2,200	240,000,000 {(S)}	240,000,000	25 U	NA	25 U [25 U]	NA	25 U	NA	NA
2-Hexanone	ug/L	{NA}	{ID}	8,700,000	16,000,000	50 U	NA	50 U [50 U]	NA	50 U	NA	NA
4-Methyl-2-pentanone	ug/L	{ID}	{ID}	20,000,000 {(S)}	20,000,000	50 U	NA	4.4 J [4.2 J]	NA	50 U	NA	NA
Acetone	ug/L	15,000,000	1,700	1,000,000,000 {(D,S)}	1,000,000,000	25 U	NA	25 U [25 U]	NA	25 U	NA	NA
Benzene	ug/L	68,000	200 {(X)}	35,000	1,750,000	1 U	1 U	1 U [1 U]	2.8	1 U	NA	NA
Bromodichloromethane	ug/L	{ID}	{ID}	37,000	6,740,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
Bromoform	ug/L	{ID}	{ID}	3,100,000 {(S)}	3,100,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
Bromomethane	ug/L	{ID}	35	9,000	14,500,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
Carbon Disulfide	ug/L	13,000	{ID}	550,000	1,190,000	5 U	NA	5 U [5 U]	NA	5 U	NA	NA
Carbon Tetrachloride	ug/L	{ID}	45 {(X)}	2,400	793,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
Chlorobenzene	ug/L	160,000	25	470,000 {(S)}	472,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
Chloroethane	ug/L	110,000	1,100 {(X)}	5,700,000 {(S)}	5,740,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
Chloroform	ug/L	{ID}	350	180,000	7,920,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
Chloromethane	ug/L	36,000	{ID}	45,000	6,340,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
Cyclohexane	ug/L	- -	- -	- -	- -	5 U	NA	5 U [5 U]	NA	5 U	NA	NA
Dibromochloromethane	ug/L	{ID}	{ID}	110,000	2,600,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
Dichlorodifluoromethane	ug/L	{ID}	{ID}	300,000 {(S)}	300,000	3.5 J	NA	1 U [1 U]	NA	1 U	NA	NA
Ethylbenzene	ug/L	43,000	18	170,000 {(S)}	169,000	1 U	1 U	1 U [1 U]	**24 (GSI (2013))**	1 U	NA	NA
Isopropylbenzene	ug/L	29,000	28	56,000 {(S)}	56,000	5 U	NA	5 U [5 U]	NA	5 U	NA	NA
m&p-Xylene	ug/L	- -	- -	- -	- -	2 U	2 U	2 U [2 U]	28	2 U	NA	NA
Methyl acetate	ug/L	- -	- -	- -	- -	5 U	NA	5 U [5 U]	NA	5 U	NA	NA
Methyl tert-butyl ether	ug/L	{ID}	7,100 {(X)}	47,000,000 {(S)}	46,800,000	5 U	NA	5 U [5 U]	NA	5 U	NA	NA
Methylcyclohexane	ug/L	- -	- -	- -	- -	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
Methylene Chloride	ug/L	{ID}	1,500 {(X)}	1,400,000	17,000,000	5 U	NA	5 U [5 U]	NA	5 U	NA	NA
o-Xylene	ug/L	- -	- -	- -	- -	1 U	1 U	1 U [1 U]	5.2	1 U	NA	NA

Table U-1

Waste Management Unit #10 Investigation
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	04-1 09/14/01	04-1 12/14/01	04-2 09/17/01	04-2 12/14/01	04-3 09/17/01	04-3 10/26/10	04-3 10/21/11
Styrene	ug/L	140,000	80 {(X)}	310,000 {(S)}	310,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
Tetrachloroethene	ug/L	{ID}	60 {(X)}	170,000	200,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
Toluene	ug/L	61,000	270	530,000 {(S)}	526,000	1 U	1 U	1 U [1 U]	2 U	1 U	NA	NA
trans-1,2-Dichloroethene	ug/L	230,000	1,500 {(X)}	200,000	6,300,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
Trichloroethene	ug/L	{ID}	200 {(X)}	4,900	1,100,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
Trichlorofluoromethane	ug/L	{ID}	{NA}	1,100,000 {(S)}	1,100,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
Vinyl Chloride	ug/L	33,000	13 {(X)}	13,000	2,760,000	1 U	NA	1 U [1 U]	NA	1 U	NA	NA
Xylenes (total)	ug/L	70,000	41	190,000 {(S)}	186,000	1 U	1 U	1 U [1 U]	5.2	1 U	NA	NA
SVOC												
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
2,4,5-Trichlorophenol	ug/L	{ID}	{NA}	{NLV}	1,200,000	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
2,4,6-Trichlorophenol	ug/L	{ID}	5	{NLV}	800,000	4 U	NA	4 U [4 U]	NA	4.4 U	NA	NA
2,4-Dichlorophenol	ug/L	{ID}	11	{NLV}	4,500,000	10 U	NA	10 U [10 U]	NA	11 U	NA	NA
2,4-Dimethylphenol	ug/L	{ID}	380	{NLV}	7,870,000	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	20 U	NA	20 U [20 U]	NA	22 UJ	NA	NA
2,4-Dinitrotoluene	ug/L	{ID}	{NA}	{NLV}	270,000	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
2-Chloronaphthalene	ug/L	{ID}	{NA}	{ID}	6,740	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
2-Chlorophenol	ug/L	{ID}	18	1,100,000	22,000,000	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	20 U	NA	20 U [20 U]	NA	22 U	NA	NA
2-Nitrophenol	ug/L	{ID}	{ID}	{NLV}	2,500,000	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
3&4-Methylphenol	ug/L	- -	- -	- -	- -	10 UJ	NA	10 UJ [10 UJ]	NA	11 UJ	NA	NA
3,3'-Dichlorobenzidine	ug/L	{ID}	0.3 {(M); 0.2}	{NLV}	3,110	**20 U**	NA	**20 U [20 U]**	NA	**22 U**	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	20 U	NA	20 U [20 U]	NA	22 U	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	20 U	NA	20 U [20 U]	NA	22 U	NA	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	5 U	NA	R [5 U]	NA	5.6 U	NA	NA
4-Chloro-3-Methylphenol	ug/L	{ID}	7.4	{NLV}	3,900,000	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
4-Chloroaniline	ug/L	- -	- -	- -	- -	20 U	NA	20 U [20 U]	NA	22 U	NA	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	R	NA	5 U [R]	NA	R	NA	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	20 U	NA	20 U [20 U]	NA	22 U	NA	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	20 U	NA	20 U [20 U]	NA	22 U	NA	NA
Acenaphthene	ug/L	{ID}	38	4,200 {(S)}	4,240	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
Acenaphthylene	ug/L	{ID}	{ID}	3,900 {(S)}	3,930	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
Acetophenone	ug/L	{ID}	{ID}	6,100,000 {(S)}	6,100,000	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
Anthracene	ug/L	{ID}	{ID}	43 {(S)}	43.4	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
Atrazine	ug/L	{ID}	7.3	{NLV}	70,000	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
Benzo(a)anthracene	ug/L	{ID}	{ID}	{NLV}	9.4	1 U	NA	1 U [1 U]	NA	1.1 U	NA	NA

Table U-1

Waste Management Unit #10 Investigation
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	04-1 09/14/01	04-1 12/14/01	04-2 09/17/01	04-2 12/14/01	04-3 09/17/01	04-3 10/26/10	04-3 10/21/11
Benzo(a)pyrene	ug/L	{ID}	{ID}	{NLV}	1.62	**2 U**	NA	**2 U [2 U]**	NA	**2.2 U**	NA	NA
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	{ID}	1.5	**2 U**	NA	**2 U [2 U]**	NA	**2.2 U**	NA	NA
Benzo(g,h,i)perylene	ug/L	{ID}	{ID}	{NLV}	0.26	**5 U**	NA	**5 U [5 U]**	NA	**5.6 U**	NA	NA
Benzo(k)fluoranthene	ug/L	{ID}	{NA}	{NLV}	0.8	**5 U**	NA	**5 U [5 U]**	NA	**5.6 U**	NA	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	1 {(M); 0.79}	210,000	17,200,000	1 U	NA	1 U [1 U]	NA	**1.1 U**	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	25	{NLV}	340	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
Butylbenzylphthalate	ug/L	{ID}	67 {(X)}	{NLV}	2,690	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
Caprolactam	ug/L	{NA}	{NA}	{NLV}	5,250,000,000	10 U	NA	10 UJ [10 UJ]	NA	11 UJ	NA	NA
Carbazole	ug/L	{ID}	10 {(M); 4.0}	{NLV}	7,480	10 U	NA	10 U [10 U]	NA	**11 U**	NA	NA
Chrysene	ug/L	{ID}	{ID}	{ID}	1.6	**5 U**	NA	**5 U [5 U]**	NA	**5.6 U**	NA	NA
Dibenzo(a,h)anthracene	ug/L	{ID}	{ID}	{NLV}	2.49	2 U	NA	2 U [2 U]	NA	2.2 U	NA	NA
Dibenzofuran	ug/L	{ID}	4	10,000 {(S)}	10,000	4 U	NA	4 U [4 U]	NA	**4.4 U**	NA	NA
Diethylphthalate	ug/L	{NA}	110	{NLV}	1,080,000	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
Dimethylphthalate	ug/L	{NA}	{NA}	{NLV}	4,190,000	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
Di-n-Butylphthalate	ug/L	{NA}	9.7	{NLV}	11,200	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
Di-n-Octylphthalate	ug/L	{ID}	{ID}	{NLV}	3,000	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
Fluoranthene	ug/L	{ID}	1.6	210 {(S)}	206	**2 U**	NA	**2 U [2 U]**	NA	**2.2 U**	NA	NA
Fluorene	ug/L	{ID}	12	2,000 {(S)}	1,980	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
Hexachlorobenzene	ug/L	{ID}	0.2 {(M); 0.0003}	3,000	6,200	**1 U**	NA	**1 U [1 U]**	NA	**1.1 U**	NA	NA
Hexachlorobutadiene	ug/L	{ID}	0.053	3,200 {(S)}	3,230	**5 U**	NA	**5 U [5 U]**	NA	**5.6 U**	NA	NA
Hexachlorocyclopentadiene	ug/L	{ID}	{ID}	420	1,800	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{ID}	{NLV}	0.022	**2 U**	NA	**2 U [2 U]**	NA	**2.2 U**	NA	NA
Isophorone	ug/L	{ID}	1,300 {(X)}	{NLV}	12,000,000	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
Methylphenols, Total	ug/L	{NA}	30 {(M); 25}	{NLV}	28,000,000	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
Nitrobenzene	ug/L	{NA}	180 {(X)}	550,000	2,090,000	2 U	NA	2 U [2 U]	NA	2.2 U	NA	NA
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NA}	{NLV}	9,890,000	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
N-Nitrosodiphenylamine	ug/L	{ID}	{NA}	{NLV}	35,100	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
Pentachlorophenol	ug/L	{ID}	2.8 {(G,X)}	{NLV}	1,850,000	**20 U**	NA	**20 U [20 U]**	NA	**22 U**	NA	NA
Phenanthrene	ug/L	{ID}	2 {(M); 1.4}	1,000 {(S)}	1,000	**5 U**	NA	**5 U [5 U]**	NA	**5.6 U**	NA	NA
Phenol	ug/L	{NA}	450	{NLV}	82,800,000	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
Pyrene	ug/L	{ID}	{ID}	140 {(S)}	135	5 U	NA	5 U [5 U]	NA	5.6 U	NA	NA
PCB												
Aroclor-1016	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U [0.1 U]	NA	0.12 U	NA	NA
Aroclor-1221	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U [0.1 U]	NA	0.12 U	NA	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U [0.1 U]	NA	0.12 U	NA	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U [0.1 U]	NA	0.12 U	NA	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	0.11 U	NA	0.16 [0.17]	NA	0.12 U	NA	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U [0.1 U]	NA	0.12 U	NA	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U [0.1 U]	NA	0.12 U	NA	NA

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Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	04-1 09/14/01	04-1 12/14/01	04-2 09/17/01	04-2 12/14/01	04-3 09/17/01	04-3 10/26/10	04-3 10/21/11
Total PCBs	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	0.11 U	NA	0.16 [0.17]	NA	0.12 U	NA	NA
PCB-Dissolved												
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U [0.1 U]	NA	0.11 U	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U [0.1 U]	NA	0.11 U	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U [0.1 U]	NA	0.11 U	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U [0.1 U]	NA	0.11 U	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	0.17 U	NA	0.1 U [0.14]	NA	0.11 U	NA	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	0.039 J	NA	0.1 U [0.1 U]	NA	0.11 U	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	0.1 U	NA	0.1 U [0.1 U]	NA	0.11 U	NA	NA
Total PCBs (Dissolved)	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	0.039 J	NA	0.1 U [0.14]	NA	0.11 U	NA	NA
Inorganic												
Cyanide (total)	ug/L	{ID}	5.2	{NLV}	{NA}	NA	NA	5 U [5 U]	NA	5 U	5 U	5 U
Lead	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	NA	2 U	NA	2 U	NA	NA	NA
Mercury	ug/L	{ID}	0.0013	56 {(S)}	56	NA	NA	**0.2 U [0.2 U]**	NA	**0.2 U**	NA	NA
Inorganic-Dissolved												
Antimony (Dissolved)	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	1.2 U	NA	1.2 U [1.2 U]	NA	1.2 U	NA	NA
Arsenic (Dissolved)	ug/L	{ID}	10	{NLV}	{NA}	1.9	NA	1 [1 U]	NA	1 U	NA	NA
Barium (Dissolved)	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	72	NA	57 [57]	NA	11	NA	NA
Beryllium (Dissolved)	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	0.4 U	NA	0.4 U [0.4 U]	NA	0.4 U	NA	NA
Cadmium (Dissolved)	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	0.2 U	NA	0.2 U [0.2 U]	NA	0.2 U	NA	NA
Chromium Total (Dissolved)	ug/L	- -	170 {(G,X)}	- -	- -	1.1 U	NA	0.63 [0.6 U]	NA	0.6 U	NA	NA
Cobalt (Dissolved)	ug/L	{ID}	100	{NLV}	{NA}	0.5	NA	0.23 [0.22]	NA	0.2 U	NA	NA
Copper (Dissolved)	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	7.2 U	NA	4.1 [1.7]	NA	**25 (GSI (2013))**	NA	NA
Cyanide (dissolved)	ug/L	{ID}	5.2	{NLV}	{NA}	3.8 J	NA	5 U [5 U]	NA	5 U	NA	NA
Lead (Dissolved)	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	0.4 U	NA	0.4 U [0.4 U]	NA	0.4 U	NA	NA
Manganese (Dissolved)	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	50	NA	100 [97]	NA	55	NA	NA
Mercury (Dissolved)	ug/L	- -	0.0013	- -	- -	**0.2 U**	NA	**0.2 U [0.2 U]**	NA	**0.2 U**	NA	NA
Nickel (Dissolved)	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	4.5 U	NA	3.2 [3.1]	NA	4.4	NA	NA
Selenium (Dissolved)	ug/L	{ID}	5	{NLV}	{NA}	**13 (GSI (2013))**	NA	1.4 U [1.4 U]	NA	1.4 U	NA	NA
Silver (Dissolved)	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	**0.4 U**	NA	**0.4 U [0.4 U]**	NA	**0.4 U**	NA	NA
Thallium (Dissolved)	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	0.2 U	NA	0.2 U [0.2 U]	NA	0.2 U	NA	NA
Vanadium (Dissolved)	ug/L	{ID}	27	{NLV}	{NA}	0.8 U	NA	0.8 U [0.8 U]	NA	0.8 U	NA	NA
Zinc (Dissolved)	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	13 U	NA	13 [9.4]	NA	15	NA	NA

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Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	04-3 11/08/12	04-4 09/17/01	04-4 03/27/03	04-4 10/21/11	04-4 11/08/12
VOC										
1,1,1-Trichloroethane	ug/L	{ID}	89	1,300,000 {(S)}	1,330,000	NA	1 U	NA	NA	NA
1,1,2,2-Tetrachloroethane	ug/L	{ID}	78 {(X)}	77,000	2,970,000	NA	1 U	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L	{ID}	32	170,000 {(S)}	170,000	NA	1 U	NA	NA	NA
1,1,2-Trichloroethane	ug/L	{NA}	330 {(X)}	110,000	4,420,000	NA	1 U	NA	NA	NA
1,1-Dichloroethane	ug/L	380,000	740	2,300,000	5,060,000	NA	1 U	NA	NA	NA
1,1-Dichloroethene	ug/L	97,000	130	1,300	2,250,000	NA	1 U	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	{NA}	99 {(X)}	300,000 {(S)}	300,000	NA	5 U	NA	NA	NA
1,2-Dibromo-3-chloropropane	ug/L	{NA}	{ID}	1,200 {(S)}	1,230	NA	1 U	NA	NA	NA
1,2-Dibromoethane	ug/L	{ID}	5.7 {(X)}	15,000	4,200,000	NA	1 U	NA	NA	NA
1,2-Dichlorobenzene	ug/L	{NA}	13	160,000 {(S)}	156,000	NA	1 U	NA	NA	NA
1,2-Dichloroethane	ug/L	2,500,000	360 {(X)}	59,000	8,520,000	NA	1 U	NA	NA	NA
1,2-Dichloropropane	ug/L	550,000	230 {(X)}	36,000	2,800,000	NA	1 U	NA	NA	NA
1,3-Dichlorobenzene	ug/L	{ID}	28	41,000	111,000	NA	1 U	NA	NA	NA
1,4-Dichlorobenzene	ug/L	{NA}	17	74,000 {(S)}	73,800	NA	1 U	NA	NA	NA
2-Butanone	ug/L	{ID}	2,200	240,000,000 {(S)}	240,000,000	NA	25 U	NA	NA	NA
2-Hexanone	ug/L	{NA}	{ID}	8,700,000	16,000,000	NA	50 U	NA	NA	NA
4-Methyl-2-pentanone	ug/L	{ID}	{ID}	20,000,000 {(S)}	20,000,000	NA	50 U	NA	NA	NA
Acetone	ug/L	15,000,000	1,700	1,000,000,000 {(D,S)}	1,000,000,000	NA	25 U	NA	NA	NA
Benzene	ug/L	68,000	200 {(X)}	35,000	1,750,000	NA	1 U	NA	NA	NA
Bromodichloromethane	ug/L	{ID}	{ID}	37,000	6,740,000	NA	1 U	NA	NA	NA
Bromoform	ug/L	{ID}	{ID}	3,100,000 {(S)}	3,100,000	NA	1 U	NA	NA	NA
Bromomethane	ug/L	{ID}	35	9,000	14,500,000	NA	1 U	NA	NA	NA
Carbon Disulfide	ug/L	13,000	{ID}	550,000	1,190,000	NA	5 U	NA	NA	NA
Carbon Tetrachloride	ug/L	{ID}	45 {(X)}	2,400	793,000	NA	1 U	NA	NA	NA
Chlorobenzene	ug/L	160,000	25	470,000 {(S)}	472,000	NA	1 U	NA	NA	NA
Chloroethane	ug/L	110,000	1,100 {(X)}	5,700,000 {(S)}	5,740,000	NA	1 U	NA	NA	NA
Chloroform	ug/L	{ID}	350	180,000	7,920,000	NA	1 U	NA	NA	NA
Chloromethane	ug/L	36,000	{ID}	45,000	6,340,000	NA	1 U	NA	NA	NA
cis-1,2-Dichloroethene	ug/L	530,000	620	210,000	3,500,000	NA	1 U	NA	NA	NA
cis-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	NA	1 U	NA	NA	NA
Cyclohexane	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA
Dibromochloromethane	ug/L	{ID}	{ID}	110,000	2,600,000	NA	1 U	NA	NA	NA
Dichlorodifluoromethane	ug/L	{ID}	{ID}	300,000 {(S)}	300,000	NA	1 U	NA	NA	NA
Ethylbenzene	ug/L	43,000	18	170,000 {(S)}	169,000	NA	1 U	NA	NA	NA
Isopropylbenzene	ug/L	29,000	28	56,000 {(S)}	56,000	NA	5 U	NA	NA	NA
m&p-Xylene	ug/L	- -	- -	- -	- -	NA	2 U	NA	NA	NA
Methyl acetate	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA
Methyl tert-butyl ether	ug/L	{ID}	7,100 {(X)}	47,000,000 {(S)}	46,800,000	NA	5 U	NA	NA	NA
Methylcyclohexane	ug/L	- -	- -	- -	- -	NA	1 U	NA	NA	NA
Methylene Chloride	ug/L	{ID}	1,500 {(X)}	1,400,000	17,000,000	NA	5 U	NA	NA	NA
o-Xylene	ug/L	- -	- -	- -	- -	NA	1 U	NA	NA	NA

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Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	04-3 11/08/12	04-4 09/17/01	04-4 03/27/03	04-4 10/21/11	04-4 11/08/12
Styrene	ug/L	140,000	80 {(X)}	310,000 {(S)}	310,000	NA	1 U	NA	NA	NA
Tetrachloroethene	ug/L	{ID}	60 {(X)}	170,000	200,000	NA	1 U	NA	NA	NA
Toluene	ug/L	61,000	270	530,000 {(S)}	526,000	NA	1 U	NA	NA	NA
trans-1,2-Dichloroethene	ug/L	230,000	1,500 {(X)}	200,000	6,300,000	NA	1 U	NA	NA	NA
trans-1,3-Dichloropropene	ug/L	- -	- -	- -	- -	NA	1 U	NA	NA	NA
Trichloroethene	ug/L	{ID}	200 {(X)}	4,900	1,100,000	NA	1 U	NA	NA	NA
Trichlorofluoromethane	ug/L	{ID}	{NA}	1,100,000 {(S)}	1,100,000	NA	1 U	NA	NA	NA
Vinyl Chloride	ug/L	33,000	13 {(X)}	13,000	2,760,000	NA	1 U	NA	NA	NA
Xylenes (total)	ug/L	70,000	41	190,000 {(S)}	186,000	NA	1 U	NA	NA	NA
SVOC										
1,1'-Biphenyl	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	{ID}	{NA}	{NLV}	1,200,000	NA	5 U	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	{ID}	5	{NLV}	800,000	NA	4 U	NA	NA	NA
2,4-Dichlorophenol	ug/L	{ID}	11	{NLV}	4,500,000	NA	10 U	NA	NA	NA
2,4-Dimethylphenol	ug/L	{ID}	380	{NLV}	7,870,000	NA	5 U	NA	NA	NA
2,4-Dinitrophenol	ug/L	- -	- -	- -	- -	NA	20 UJ	NA	NA	NA
2,4-Dinitrotoluene	ug/L	{ID}	{NA}	{NLV}	270,000	NA	5 U	NA	NA	NA
2,6-Dinitrotoluene	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA
2-Chloronaphthalene	ug/L	{ID}	{NA}	{ID}	6,740	NA	5 U	NA	NA	NA
2-Chlorophenol	ug/L	{ID}	18	1,100,000	22,000,000	NA	5 U	NA	NA	NA
2-Methylnaphthalene	ug/L	{ID}	19	25,000 {(S)}	24,600	NA	5 U	NA	NA	NA
2-Methylphenol	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA
2-Nitroaniline	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	NA
2-Nitrophenol	ug/L	{ID}	{ID}	{NLV}	2,500,000	NA	5 U	NA	NA	NA
3&4-Methylphenol	ug/L	- -	- -	- -	- -	NA	10 UJ	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	{ID}	0.3 {(M); 0.2}	{NLV}	3,110	NA	**20 U**	NA	NA	NA
3-Nitroaniline	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	NA
4-Bromophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA
4-Chloro-3-Methylphenol	ug/L	{ID}	7.4	{NLV}	3,900,000	NA	5 U	NA	NA	NA
4-Chloroaniline	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	NA
4-Chlorophenyl-phenylether	ug/L	- -	- -	- -	- -	NA	R	NA	NA	NA
4-Nitroaniline	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	NA
4-Nitrophenol	ug/L	- -	- -	- -	- -	NA	20 U	NA	NA	NA
Acenaphthene	ug/L	{ID}	38	4,200 {(S)}	4,240	NA	5 U	NA	NA	NA
Acenaphthylene	ug/L	{ID}	{ID}	3,900 {(S)}	3,930	NA	5 U	NA	NA	NA
Acetophenone	ug/L	{ID}	{ID}	6,100,000 {(S)}	6,100,000	NA	5 U	NA	NA	NA
Anthracene	ug/L	{ID}	{ID}	43 {(S)}	43.4	NA	5 U	NA	NA	NA
Atrazine	ug/L	{ID}	7.3	{NLV}	70,000	NA	5 U	NA	NA	NA
Benzaldehyde	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA
Benzo(a)anthracene	ug/L	{ID}	{ID}	{NLV}	9.4	NA	1 U	NA	NA	NA

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Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	04-3 11/08/12	04-4 09/17/01	04-4 03/27/03	04-4 10/21/11	04-4 11/08/12
Benzo(a)pyrene	ug/L	{ID}	{ID}	{NLV}	1.62	NA	**2 U**	NA	NA	NA
Benzo(b)fluoranthene	ug/L	{ID}	{ID}	{ID}	1.5	NA	**2 U**	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	{ID}	{ID}	{NLV}	0.26	NA	**5 U**	NA	NA	NA
Benzo(k)fluoranthene	ug/L	{ID}	{NA}	{NLV}	0.8	NA	**5 U**	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	- -	- -	- -	- -	NA	5 U	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	17,000,000 {(S)}	1 {(M); 0.79}	210,000	17,200,000	NA	1 U	NA	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	{NA}	25	{NLV}	340	NA	5 U	NA	NA	NA
Butylbenzylphthalate	ug/L	{ID}	67 {(X)}	{NLV}	2,690	NA	5 U	NA	NA	NA
Caprolactam	ug/L	{NA}	{NA}	{NLV}	5,250,000,000	NA	10 UJ	NA	NA	NA
Carbazole	ug/L	{ID}	10 {(M); 4.0}	{NLV}	7,480	NA	10 U	NA	NA	NA
Chrysene	ug/L	{ID}	{ID}	{ID}	1.6	NA	**5 U**	NA	NA	NA
Dibenzo(a,h)anthracene	ug/L	{ID}	{ID}	{NLV}	2.49	NA	2 U	NA	NA	NA
Dibenzofuran	ug/L	{ID}	4	10,000 {(S)}	10,000	NA	4 U	NA	NA	NA
Diethylphthalate	ug/L	{NA}	110	{NLV}	1,080,000	NA	5 U	NA	NA	NA
Dimethylphthalate	ug/L	{NA}	{NA}	{NLV}	4,190,000	NA	5 U	NA	NA	NA
Di-n-Butylphthalate	ug/L	{NA}	9.7	{NLV}	11,200	NA	5 U	NA	NA	NA
Di-n-Octylphthalate	ug/L	{ID}	{ID}	{NLV}	3,000	NA	5 U	NA	NA	NA
Fluoranthene	ug/L	{ID}	1.6	210 {(S)}	206	NA	**2 U**	NA	NA	NA
Fluorene	ug/L	{ID}	12	2,000 {(S)}	1,980	NA	5 U	NA	NA	NA
Hexachlorobenzene	ug/L	{ID}	0.2 {(M); 0.0003}	3,000	6,200	NA	**1 U**	NA	NA	NA
Hexachlorobutadiene	ug/L	{ID}	0.053	3,200 {(S)}	3,230	NA	**5 U**	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	{ID}	{ID}	420	1,800	NA	5 U	NA	NA	NA
Hexachloroethane	ug/L	{ID}	6.7 {(X)}	50,000 {(S)}	50,000	NA	5 U	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	{ID}	{ID}	{NLV}	0.022	NA	**2 U**	NA	NA	NA
Isophorone	ug/L	{ID}	1,300 {(X)}	{NLV}	12,000,000	NA	5 U	NA	NA	NA
Methylphenols, Total	ug/L	{NA}	30 {(M); 25}	{NLV}	28,000,000	NA	5 U	NA	NA	NA
Naphthalene	ug/L	{NA}	11	31,000 {(S)}	31,000	NA	5 U	NA	NA	NA
Nitrobenzene	ug/L	{NA}	180 {(X)}	550,000	2,090,000	NA	2 U	NA	NA	NA
N-Nitroso-di-n-propylamine	ug/L	{ID}	{NA}	{NLV}	9,890,000	NA	5 U	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	{ID}	{NA}	{NLV}	35,100	NA	5 U	NA	NA	NA
Pentachlorophenol	ug/L	{ID}	2.8 {(G,X)}	{NLV}	1,850,000	NA	**20 U**	NA	NA	NA
Phenanthrene	ug/L	{ID}	2 {(M); 1.4}	1,000 {(S)}	1,000	NA	**5 U**	NA	NA	NA
Phenol	ug/L	{NA}	450	{NLV}	82,800,000	NA	5 U	NA	NA	NA
Pyrene	ug/L	{ID}	{ID}	140 {(S)}	135	NA	5 U	NA	NA	NA
PCB										
Aroclor-1016	ug/L	- -	- -	- -	- -	NA	0.11 U	0.11 U	NA	NA
Aroclor-1221	ug/L	- -	- -	- -	- -	NA	0.11 U	0.11 U	NA	NA
Aroclor-1232	ug/L	- -	- -	- -	- -	NA	0.11 U	0.11 U	NA	NA
Aroclor-1242	ug/L	- -	- -	- -	- -	NA	0.11 U	0.11 U	NA	NA
Aroclor-1248	ug/L	- -	- -	- -	- -	NA	0.11 U	0.11 U	NA	NA
Aroclor-1254	ug/L	- -	- -	- -	- -	NA	0.11 U	0.11 U	NA	NA
Aroclor-1260	ug/L	- -	- -	- -	- -	NA	0.11 U	0.11 U	NA	NA

Table U-1

Waste Management Unit #10 Investigation
Summary of Groundwater Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE (2013)	GSI (2013)	NGVIA (2013)	WS (2013)	04-3 11/08/12	04-4 09/17/01	04-4 03/27/03	04-4 10/21/11	04-4 11/08/12
Total PCBs	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	NA	0.11 U	0.11 U	NA	NA
PCB-Dissolved										
Aroclor-1016 (PCB-1016) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA
Aroclor-1221 (PCB-1221) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA
Aroclor-1232 (PCB-1232) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA
Aroclor-1242 (PCB-1242) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA
Aroclor-1248 (PCB-1248) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA
Aroclor-1254 (PCB-1254) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA
Aroclor-1260 (PCB-1260) (Dissolved)	ug/L	- -	- -	- -	- -	NA	0.1 U	NA	NA	NA
Total PCBs (Dissolved)	ug/L	{ID}	0.2 {(M); 2.6E-5}	45 {(S)}	44.7	NA	0.1 U	NA	NA	NA
Inorganic										
Cyanide (total)	ug/L	{ID}	5.2	{NLV}	{NA}	5 U	5 U	NA	5 U	5 U
Lead	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	NA	NA	NA	NA	NA
Mercury	ug/L	{ID}	0.0013	56 {(S)}	56	NA	**0.2 U**	NA	NA	NA
Inorganic-Dissolved										
Antimony (Dissolved)	ug/L	{ID}	130 {(X)}	{NLV}	{NA}	NA	1.2 U	NA	NA	NA
Arsenic (Dissolved)	ug/L	{ID}	10	{NLV}	{NA}	NA	6.5	NA	NA	NA
Barium (Dissolved)	ug/L	{ID}	1,300 {(G)}	{NLV}	{NA}	NA	17	NA	NA	NA
Beryllium (Dissolved)	ug/L	{ID}	32 {(G)}	{NLV}	{NA}	NA	0.4 U	NA	NA	NA
Cadmium (Dissolved)	ug/L	{ID}	4.8 {(G,X)}	{NLV}	{NA}	NA	0.2 U	NA	NA	NA
Chromium Total (Dissolved)	ug/L	- -	170 {(G,X)}	- -	- -	NA	0.6 U	NA	NA	NA
Cobalt (Dissolved)	ug/L	{ID}	100	{NLV}	{NA}	NA	0.23	NA	NA	NA
Copper (Dissolved)	ug/L	{ID}	22 {(G)}	{NLV}	{NA}	NA	5.4	NA	NA	NA
Cyanide (dissolved)	ug/L	{ID}	5.2	{NLV}	{NA}	NA	5 U	NA	NA	NA
Lead (Dissolved)	ug/L	{ID}	47 {(G,X)}	{NLV}	{NA}	NA	0.4 U	NA	NA	NA
Manganese (Dissolved)	ug/L	{ID}	4,900 {(G,X)}	{NLV}	{NA}	NA	37	NA	NA	NA
Mercury (Dissolved)	ug/L	- -	0.0013	- -	- -	NA	**0.2 U**	NA	NA	NA
Nickel (Dissolved)	ug/L	{ID}	120 {(G)}	{NLV}	{NA}	NA	1.7	NA	NA	NA
Selenium (Dissolved)	ug/L	{ID}	5	{NLV}	{NA}	NA	2.8	NA	NA	NA
Silver (Dissolved)	ug/L	{ID}	0.2 {(M); 0.06}	{NLV}	{NA}	NA	**0.4 U**	NA	NA	NA
Thallium (Dissolved)	ug/L	{ID}	3.7 {(X)}	{NLV}	{NA}	NA	0.2 U	NA	NA	NA
Vanadium (Dissolved)	ug/L	{ID}	27	{NLV}	{NA}	NA	4.4	NA	NA	NA
Zinc (Dissolved)	ug/L	{ID}	280 {(G)}	{NLV}	{NA}	NA	26	NA	NA	NA

Table U-2

Waste Management Unit #10 Investigation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	WMU10_SB1 17.2000007629395 - 17.700 01/24/12	WMU10_SB1A 16 - 16.5 01/24/12	WMU10_SB2 16 - 16.5 01/24/12	WMU10_SB2C 13 - 13.5 01/24/12
VOC												
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.06 U	0.07 U	0.06 U	0.06 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.06 U	0.07 U	0.06 U	0.06 U
SVOC												
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 US
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 U	0.3 U	0.3 US
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.3 U	0.3 U	0.3 U	0.3 U
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.3 U	0.3 U	0.3 U	0.3 US
Pyridine	mg/kg	37	{NA}	730 {(C)}	100,000	2	9.8	{NA}	0.3 U	0.3 U	0.3 U	0.3 US
Volatile Organics												
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.06 U	0.07 U	0.06 U	0.06 U
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.06 U	0.07 U	0.06 U	0.06 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.06 U	0.07 U	0.06 U	0.06 U
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	6 U	7 U	6 U	6 U
2-Ethanoxyethanol	mg/kg	- -	- -	- -	- -	- -	- -	- -	1 U	1 U	1 U	1 U
2-Nitropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	6 U	7 U	6 U	6 U
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	6 U	7 U	6 U	6 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	6 U	7 U	6 U	6 U
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.06 U	0.07 U	0.06 U	0.06 U
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	6 U	7 U	6 U	6 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.06 U	0.07 U	0.06 U	0.06 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.06 U	0.07 U	0.06 U	0.06 U
Cyclohexanone	mg/kg	220,000	{NA}	1,000,000 {(C,D)}	29,000,000	32	1,300	{NA}	6 U	7 U	6 U	6 U
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	6 U	7 U	6 U	6 U
Ethyl acetate	mg/kg	7,500	{NA}	660,000 {(C)}	94,000,000	70,000 {(C)}	59,000	{NA}	6 U	7 U	6 U	6 U
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.06 U	0.07 U	0.06 U	0.06 U
Isobutanol	mg/kg	8,900	{NA}	230,000 {(C)}	44,000,000	430,000 {(C)}	95,000	{NA}	60 U	70 U	60 U	60 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.07 U	0.06 U	0.06
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.06 U	0.07 U	0.06 U	0.06 U
n-Butanol	mg/kg	8,700	200	95,000 {(C)}	10,000,000	{NLV}	{NLV}	{NA}	60 U	70 U	60 U	60 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.07 U	0.06 U	0.06 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.06 U	0.07 U	0.06 U	0.06 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.06 U	0.07 U	0.06 U	0.06 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.06 U	0.07 U	0.06 U	0.06 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.06 U	0.07 U	0.06 U	0.06 U
TPH												
Methanol	mg/kg	3,100	12,000 {(C)}	360,000 {(C)}	96,000,000	67,000 {(C)}	37,000	{NA}	4.4 UO	4.4 UO	19 O	6.1 O
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C6-C10) GRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Inorganic												
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	2.98	5.83	3.03	3.13
Miscellaneous												
Flash point (closed cup)	mm/sec	- -	- -	- -	- -	- -	- -	- -	2.2 U	2.2 U	2.2 U	2.2 U
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	900,000	830,000	910,000	920,000

Table U-2

Waste Management Unit #10 Investigation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	WMU10_SB3 15.5 - 16 01/24/12	WMU10_SB3C 12.5 - 13 01/24/12	WMU10_SB4A 17 - 17.5 01/25/12	WMU10_SB4C 14.5 - 15 01/25/12
VOC												
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	0.06 U	0.06 U	0.6 UX	0.6 UX
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	0.06 U	0.06 U	0.6 UX	0.6 UX
SVOC												
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 US	0.3 U	0.3 US
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.3 US	0.3 U	0.3 US
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.3 U	0.3 U	0.3 U	0.3 U
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.3 U	0.3 US	0.3 U	0.3 US
Pyridine	mg/kg	37	{NA}	730 {(C)}	100,000	2	9.8	{NA}	0.3 U	0.3 US	0.3 U	0.3 US
Volatile Organics												
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	0.06 U	0.06 U	0.6 UX	0.6 UX
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	0.06 U	0.06 U	0.6 UX	0.6 UX
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	0.06 U	0.06 U	**0.6 UX**	**0.6 UX**
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	6 U	6 U	**60 UX**	**60 UX**
2-Ethanoxyethanol	mg/kg	- -	- -	- -	- -	- -	- -	- -	1 U	1 U	1 U	1 U
2-Nitropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	6 U	6 U	60 UX	60 UX
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	6 U	6 U	60 UX	60 UX
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	6 U	6 U	**60 UX**	**60 UX**
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	0.06 U	0.06 U	0.6 UX	0.6 UX
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	6 U	6 U	60 UX	60 UX
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	0.06 U	0.06 U	0.6 UX	0.6 UX
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	0.06 U	0.06 U	**0.6 UX**	**0.6 UX**
Cyclohexanone	mg/kg	220,000	{NA}	1,000,000 {(C,D)}	29,000,000	32	1,300	{NA}	6 U	6 U	**60 UX**	**60 UX**
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	6 U	6 U	60 UX	60 UX
Ethyl acetate	mg/kg	7,500	{NA}	660,000 {(C)}	94,000,000	70,000 {(C)}	59,000	{NA}	6 U	6 U	60 UX	60 UX
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	0.06 U	0.06 U	**0.6 UX**	**0.6 UX**
Isobutanol	mg/kg	8,900	{NA}	230,000 {(C)}	44,000,000	430,000 {(C)}	95,000	{NA}	60 U	60 U	600 UX	600 UX
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.06 U	0.6 UX	0.6 UX
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	0.06 U	0.06 U	0.6 UX	0.6 UX
n-Butanol	mg/kg	8,700	200	95,000 {(C)}	10,000,000	{NLV}	{NLV}	{NA}	60 U	60 U	**600 UX**	**600 UX**
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.06 U	0.06 U	0.6 UX	0.6 UX
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	0.06 U	0.06 U	0.6 UX	0.6 UX
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	0.06 U	0.06 U	0.6 UX	0.9 X
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	0.06 U	0.06 U	0.6 UX	0.6 UX
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	0.06 U	0.06 U	0.6 UX	0.6 UX
TPH												
Methanol	mg/kg	3,100	12,000 {(C)}	360,000 {(C)}	96,000,000	67,000 {(C)}	37,000	{NA}	9.4 O	19 O	4.4 UO	4.4 UO
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C6-C10) GRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA
Inorganic												
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	2.5	4.83	9.63	8.46
Miscellaneous												
Flash point (closed cup)	mm/sec	- -	- -	- -	- -	- -	- -	- -	2.2 U	2.2 U	2.2 U	2.2 U
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	910,000	930,000	890,000	910,000

Table U-2

Waste Management Unit #10 Investigation
Summary of Soil Sample Analytical Results
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	CSAT (2013)	GSIP (2013)	NDC (2013)	NPSIC (2013)	NSVIA (2013)	NVSICI (2013)	SDBL (2013)	WMU10_SB5 18.5 - 19 01/25/12	WMU10_SB5C 16.5 - 17 01/25/12	WMU10_SB6 11.5 - 12 01/25/12	WMU10_SB6A 17.5 - 18 01/25/12
VOC												
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	550	1.7	1,000,000 {(C,D)}	2,300,000,000	9,300 {(C)}	210,000	{NA}	1 UY	0.6 UX	0.06 U	0.08 U
Dichlorodifluoromethane	mg/kg	1,000	{ID}	170,000 {(C)}	1,500,000,000	1,700	63,000	{NA}	1 UY	0.6 UX	0.06 U	0.08 U
SVOC												
2-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.4 UX	0.3 U	0.3 U
3&4-Methylphenol	mg/kg	- -	- -	- -	- -	- -	- -	- -	0.3 U	0.7 UX	0.3 U	0.3 U
Methylphenols, Total	mg/kg	{NA}	1 {(M); 600}	36,000	2,900,000	{NLV}	{NLV}	{NA}	0.3 U	0.4 U	0.3 U	0.3 U
Nitrobenzene	mg/kg	490	3.6 {(X)}	340	21,000	170	64	{NA}	0.3 U	0.4 UX	0.3 U	0.3 U
Pyridine	mg/kg	37	{NA}	730 {(C)}	100,000	2	9.8	{NA}	0.3 U	0.4 UX	0.3 U	0.3 U
Volatile Organics												
1,1,1-Trichloroethane	mg/kg	460	1.8	1,000,000 {(C,D) }	29,000,000	460	4,500	{NA}	1 UY	0.6 UX	0.06 U	0.08 U
1,1,2-Trichloroethane	mg/kg	920	6.6 {(X)}	840	250,000	24	57	{NA}	1 UY	0.6 UX	0.06 U	0.08 U
1,2-Dichlorobenzene	mg/kg	210	0.28	63,000 {(C)}	44,000,000	20,000 {(C)}	46,000	{NA}	**1 UY**	**0.6 UX**	0.06 U	0.08 U
2-Butanone	mg/kg	27,000	44	700,000 {(C,DD)}	29,000,000	99,000 {(C)}	35,000	{NA}	**100 UY**	**60 UX**	6 U	8 U
2-Ethanoxyethanol	mg/kg	- -	- -	- -	- -	- -	- -	- -	1 U	1 U	1 U	2 U
2-Nitropropane	mg/kg	- -	- -	- -	- -	- -	- -	- -	100 UX	60 UX	6 U	8 U
4-Methyl-2-pentanone	mg/kg	2,700	{ID}	180,000 {(C)}	60,000,000	69,000 {(C)}	53,000	{NA}	100 UY	60 UX	6 U	8 U
Acetone	mg/kg	110,000	34	73,000	170,000,000	540,000 {(C)}	160,000	{NA}	**100 UY**	**60 UX**	6 U	8 U
Benzene	mg/kg	400	4 {(X)}	840 {(C)}	470,000	8.4	45	{NA}	1 UY	0.6 UX	0.06 U	0.08 U
Carbon Disulfide	mg/kg	280	{ID}	43,000 {(C,DD)}	21,000,000	140	1,600	{NA}	100 UY	60 UX	6 U	8 U
Carbon Tetrachloride	mg/kg	390	0.9 {(X)}	440 {(C)}	170,000	0.99	12	{NA}	**1 UY**	0.6 UX	0.06 U	0.08 U
Chlorobenzene	mg/kg	260	0.5	14,000 {(C)}	2,100,000	220	920	{NA}	**1 UY**	**0.6 UX**	0.06 U	0.08 U
Cyclohexanone	mg/kg	220,000	{NA}	1,000,000 {(C,D)}	29,000,000	32	1,300	{NA}	**100 UX**	**60 UX**	6 U	8 U
Diethyl ether	mg/kg	7,400	{ID}	360,000 {(C)}	350,000,000	52,000 {(C)}	100,000	{NA}	100 UY	60 UX	6 U	8 U
Ethyl acetate	mg/kg	7,500	{NA}	660,000 {(C)}	94,000,000	70,000 {(C)}	59,000	{NA}	100 UX	60 UX	6 U	8 U
Ethylbenzene	mg/kg	140	0.36	71,000 {(C)}	13,000,000	460 {(C)}	2,400	{NA}	**11 Y (GSIP (2013))**	**0.6 UX**	0.06 U	0.08 U
Isobutanol	mg/kg	8,900	{NA}	230,000 {(C)}	44,000,000	430,000 {(C)}	95,000	{NA}	1,000 UX	600 UX	60 U	80 U
m&p-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	46 Y	1.3 X	0.06 U	0.08 U
Methylene Chloride	mg/kg	2,300	30 {(X)}	5,800 {(C)}	8,300,000	240	700	{NA}	1 UY	0.6 UX	0.06 U	0.08 U
n-Butanol	mg/kg	8,700	200	95,000 {(C)}	10,000,000	{NLV}	{NLV}	{NA}	**1,000 UX**	**600 UX**	60 U	80 U
o-Xylene	mg/kg	- -	- -	- -	- -	- -	- -	- -	16 Y	0.6 X	0.06 U	0.08 U
Tetrachloroethene	mg/kg	88	1.2 {(X)}	930 {(C)}	1,200,000	21	210	{NA}	1 UY	0.6 UX	0.06 U	0.08 U
Toluene	mg/kg	250	5.4	160,000 {(C)}	12,000,000	610 {(C)}	3,300	{NA}	**118 Y (GSIP (2013))**	2.4 X	0.06 U	0.08 U
Trichloroethene	mg/kg	500	4 {(X)}	660 {(C,DD)}	59,000	1.9	14	{NA}	1 UY	0.6 UX	0.06 U	0.08 U
Trichlorofluoromethane	mg/kg	560	{NA}	260,000 {(C)}	1,700,000,000	5,100 {(C)}	110,000	{NA}	1 UY	0.6 UX	0.06 U	0.08 U
TPH												
Methanol	mg/kg	3,100	12,000 {(C)}	360,000 {(C)}	96,000,000	67,000 {(C)}	37,000	{NA}	4.4 UO	4.4 UO	99 O	110 O
Total Petroleum Hydrocarbons (C10-C28) DRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	11,710 XY	NA	NA	NA
Total Petroleum Hydrocarbons (C6-C10) GRO	mg/kg	- -	- -	- -	- -	- -	- -	- -	550 Y	NA	NA	NA
Inorganic												
Lead	mg/kg	{NA}	8,300 {(G,X)}	900 {(DD)}	44,000	{NLV}	{NLV}	21	13.2	8.64	2.62	2.61
Miscellaneous												
Flash point (closed cup)	mm/sec	- -	- -	- -	- -	- -	- -	- -	2.2 U	2.2 U	2.2 U	2.2 U
Total Solids	mg/kg	- -	- -	- -	- -	- -	- -	- -	890,000	920,000	920,000	820,000

Table X-1

Groundwater Level Data:
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	April 3-4, 2001					September 10-11, 2001					June 10-11, 2002				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
03-01	744.67	0.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03-01R	744.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03-02	743.24	--	NA	NA	4.28	738.96	NA	NA	0.00	4.15	739.09	NA	NA	0.00	7.02	736.22	NA
03-3	747.01	0.9	11.85	0.96	12.81	734.20	735.06	11.94	0.05	11.99	735.02	735.07	NA	0.00	2.54	744.47	NA
03-3R	746.47	0.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03-101	--	0.9	--	--	--	--	--	NA	0.00	10.17	--	NA	--	--	--	--	--
03-101R	747.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03-105	748.16	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	0.30	747.86	NA
03-105R	747.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03-105R2	748.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03-109	747.40	--	NA	0.00	10.21	737.19	NA	NA	0.00	10.43	736.97	NA	NA	0.00	10.72	736.68	NA
03-110	746.95	--	NA	0.00	7.70	739.25	NA	--	--	--	--	--	NA	0.00	8.00	738.95	NA
03-110R	746.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03-111	744.70	--	NA	0.00	4.91	739.79	NA	NA	0.00	5.46	739.24	NA	NA	0.00	6.86	737.84	NA
03-112	747.21	--	NA	0.00	6.02	741.19	NA	--	--	--	--	--	--	--	--	--	--
03-113	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03-114	746.49	--	NA	0.00	11.98	734.51	NA	NA	0.00	11.94	734.55	NA	--	--	Dry	Dry	NA
03-114R	746.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04-1	731.03	--	--	--	--	--	--	NA	0.00	4.88	726.15	NA	--	--	--	--	--
04-2	730.37	--	NA	0.00	6.45	723.92	NA	NA	0.00	6.55	723.82	NA	NA	0.00	6.23	724.14	NA
04-3	730.19	--	NA	0.00	7.62	722.57	NA	NA	0.00	7.58	722.61	NA	NA	0.00	3.37	726.82	NA
04-4	--	--	--	--	--	--	--	NA	0.00	7.78		NA	--	--	--	--	--
04-5	730.69	--	NA	0.00	8.43	722.26	NA	NA	0.00	8.64	722.05	NA	--	--	--	--	--
04-6R	735.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04-120	750.52	--	NA	0.00	10.59	739.93	NA	NA	0.00	11.47	739.05	NA	NA	0.00	10.32	740.20	NA
04-121	752.12	--	NA	0.00	18.99	733.13	NA	NA	0.00	19.44	732.68	NA	NA	0.00	18.50	733.62	NA
04-140	751.06	--	NA	0.00	17.07	733.99	NA	NA	0.00	17.16	733.90	NA	NA	0.00	16.78	734.28	NA
04-160	729.13	--	NA	0.00	14.16	714.97	NA	NA	0.00	14.00	715.13	NA	--	--	--	--	--
07-01	732.41	--	NA	0.00	16.10	716.31	NA	NA	0.00	16.08	716.33	NA	--	--	--	--	--
07-02	727.47	--	NA	0.00	8.40	719.07	NA	NA	0.00	8.93	718.54	NA	--	--	--	--	--
11-120	747.44	--	NA	0.00	9.15	738.29	NA	--	--	--	--	--	NA	0.00	8.86	738.58	NA
11-140	741.78	--	NA	0.00	15.35	726.43	NA	NA	0.00	14.88	726.90	NA	NA	0.00	13.84	727.94	NA
20-100	750.80	--	NA	0.00	8.91	741.89	NA	NA	0.00	9.70	741.10	NA	NA	0.00	8.30	742.50	NA
20-101	752.60	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	11.10	741.50	NA
20-101R	751.69	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	11.44	740.25	NA
20-101RD	752.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-102	752.30	--	--	--	--	--	--	NA	0.00	10.52	741.78	NA	--	--	--	--	--
20-102R	751.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-103N	751.69	--	NA	0.00	9.94	741.75	NA	NA	0.00	11.10	740.59	NA	NA	0.00	9.53	742.16	NA
20-103S	751.67	--	NA	0.00	9.91	741.76	NA	--	--	--	--	--	NA	0.00	9.58	742.09	NA
20-105R	751.91	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	9.65	742.26	NA
20-120	749.45	--	NA	0.00	8.00	741.45	NA	NA	0.00	8.02	741.43	NA	NA	0.00	7.87	741.58	NA
20-121	753.25	--	NA	0.00	11.93	741.32	NA	NA	0.00	11.87	741.38	NA	NA	0.00	11.57	741.68	NA
20-122	752.40	--	NA	0.00	12.34	740.06	NA	NA	0.00	11.97	740.43	NA	NA	0.00	11.32	741.08	NA
20-140	752.80	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	10.73	742.07	NA
20-141	753.25	--	NA	0.00	8.75	744.50	NA	--	--	--	--	--	NA	0.00	8.15	745.10	NA
20-142	749.60	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	9.40	740.20	NA
20-143	749.25	--	NA	0.00	9.36	739.89	NA	--	--	--	--	--	NA	0.00	8.75	740.50	NA
20-144	749.90	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	8.26	741.64	NA
20-145	749.34	--	NA	0.00	9.90	739.44	NA	NA	0.00	9.49	739.85	NA	NA	0.00	9.08	740.26	NA
20-146	--	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	12.69	--	NA
20-160	752.81	0.99	NA	0.00	11.47	741.34	NA	NA	0.00	11.78	741.03	NA	11.12	0.03	11.15	741.66	741.69
20-162	753.48	0.99	12.26	0.45	12.71	740.77	741.22	12.21	0.47	12.68	740.80	741.27	11.87	0.18	12.05	741.43	741.61
20-163	750.44	0.99	NA	0.00	10.32	740.12	NA	--	--	--	--	--	--	--	--	--	--
20-163R	750.58	0.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-164	751.14	0.99	12.60	0.01	12.61	738.53	738.54	NA	0.00	9.37	741.77	NA	10.86	0.01	10.87	740.27	740.28
20-165	749.97	--	NA	0.00	12.40	737.57	NA	--	--	--	--	--	NA	0.00	10.78	739.19	NA

Table X-1

Groundwater Level Data:
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	April 3-4, 2001					September 10-11, 2001					June 10-11, 2002				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
20-167	753.34	0.99	NA	0.00	12.79	740.55	NA	--	--	--	--	--	--	--	--	--	--
20-168	753.44	0.99	NA	0.00	13.41	740.03	NA	13.13	0.01	13.14	740.30	740.31	NA	0.00	20.85	732.59	NA
20-169	753.38	0.99	7.43	5.99	13.42	739.96	745.89	NA	0.00	13.14	740.24	NA	NA	0.00	12.81	740.57	NA
20-170	748.22	0.99	NA	0.00	7.44	740.78	NA	NA	0.00	9.02	739.20	NA	NA	0.00	7.53	740.69	NA
20-171	748.20	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	7.81	740.39	NA
20-500	750.63	--	NA	0.00	8.97	741.66	NA	NA	0.00	9.65	740.98	NA	NA	0.00	8.48	742.15	NA
20-500R	750.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-501	750.63	--	NA	0.00	8.75	741.88	NA	--	--	--	--	--	NA	0.00	8.29	742.34	NA
20-502	751.29	0.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-503	751.54	0.99	--	--	--	--	--	--	--	--	--	--	11.18	1.39	12.57	738.97	740.35
20-504	749.74	--	NA	0.00	8.59	741.15	NA	NA	0.00	9.41	740.33	NA	NA	0.00	8.34	741.40	NA
20-505D	752.20	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	10.18	742.02	NA
20-505S	750.54	--	NA	0.00	10.46	740.08	NA	--	--	--	--	--	--	--	--	--	--
20-506	751.35	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	9.86	741.49	NA
20-FP-1	752.17	0.99	11.29	0.01	11.30	740.87	740.88	NA	0.00	11.49	740.68	NA	--	--	--	--	--
20-FP-10	747.25	--	NA	0.00	5.58	741.67	NA	NA	0.00	7.60	739.65	NA	NA	0.00	7.72	739.53	NA
20-FP-11	743.97	--	NA	0.00	3.50	740.47	NA	NA	0.00	4.63	739.34	NA	NA	0.00	4.76	739.21	NA
20-FP-11R	744.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-FP-12	742.51	--	NA	0.00	2.51	740.00	NA	--	--	--	--	--	NA	0.00	3.85	738.66	NA
20-FP-2	753.51	--	--	--	--	--	--	NA	0.00	9.62	743.89	NA	--	--	--	--	--
20-FP-4R	751.25	0.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-FP-5	748.82	--	NA	0.00	7.20	741.62	NA	NA	0.00	8.00	740.82	NA	NA	0.00	7.90	740.92	NA
20-FP-6	747.91	--	NA	0.00	7.75	740.16	NA	NA	0.00	8.69	739.22	NA	NA	0.00	7.47	740.44	NA
20-FP-6R	747.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-FP-7	748.53	0.99	8.80	0.35	9.15	739.38	739.73	8.65	0.44	9.09	739.44	739.88	7.62	0.43	8.05	740.48	740.91
20-FP-8	748.73	0.99	7.85	0.69	8.54	740.19	740.87	8.98	0.67	9.65	739.08	739.74	7.57	1.06	8.63	740.10	741.15
20-FP-9	749.45	--	NA	0.00	8.57	740.88	NA	NA	0.00	9.11	740.34	NA	NA	0.00	8.20	741.25	NA
20-FP-10	747.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30-100	747.24	--	NA	0.00	10.66	736.58	NA	NA	0.00	10.32	736.92	NA	NA	0.00	11.78	735.46	NA
30-120	747.48	--	NA	0.00	6.34	741.14	NA	NA	0.00	6.58	740.90	NA	NA	0.00	7.03	740.45	NA
30-140	745.88	--	NA	0.00	9.04	736.84	NA	NA	0.00	6.28	739.60	NA	NA	0.00	5.68	740.20	NA
31-1	735.19	--	NA	0.00	8.91	726.28	NA	--	--	--	--	--	NA	0.00	7.32	727.87	NA
31-2	733.97	--	NA	0.00	7.51	726.46	NA	--	--	--	--	--	NA	0.00	5.58	728.39	NA
31-3	734.44	--	NA	0.00	8.49	725.95	NA	--	--	--	--	--	--	--	--	--	--
31-4D	733.87	0.92	8.61	0.05	8.66	725.21	725.26	--	--	--	--	--	NA	0.00	5.41	728.46	NA
31-4S	733.90	0.92	7.11	0.02	7.13	726.77	726.79	--	--	--	--	--	NA	0.00	5.15	728.75	NA
31-5	736.12	--	NA	0.00	10.44	725.68	NA	NA	0.00	10.57	725.55	NA	NA	0.00	9.70	726.42	NA
31-6	734.54	--	NA	0.00	8.30	726.24	NA	NA	0.00	8.09	726.45	NA	NA	0.00	7.80	726.74	NA
31-7	729.75	0.75	6.71	3.92	10.63	719.12	722.06	--	--	--	--	--	--	0.00	6.81	722.94	NA
31-8	730.26	--	NA	0.00	8.53	721.73	NA	NA	0.00	8.67	721.59	NA	NA	0.00	8.27	721.99	NA
36 FP1	750.60	--	--	--	--	--	--	NA	0.00	12.52	738.08	NA	NA	0.00	11.72	738.88	NA
36 FP2	750.30	0.9	NA	0.00	12.69	737.61	NA	NA	0.00	12.64	737.66	NA	NA	0.00	11.77	738.53	NA
36 FP3	749.41	0.9	11.55	0.80	12.35	737.06	737.78	--	--	--	--	--	10.57	0.39	10.96	738.45	738.80
36 FP4	753.70	0.9	--	--	--	--	--	--	--	--	--	--	15.13	0.01	15.14	738.56	738.57
36 FP5	753.84	0.9	NA	0.00	16.18	737.66	NA	NA	0.00	16.09	737.75	NA	15.28	0.01	15.29	738.55	738.56
36 FP6	749.51	0.9	9.53	3.77	13.30	736.21	739.60	9.22	3.02	12.24	737.27	739.99	8.00	2.38	10.38	739.13	741.27
36 FP7	750.02	0.9	12.30	3.30	15.60	734.42	737.39	--	--	--	--	--	11.13	2.79	13.92	736.10	738.61
36 FP8	748.83	--	NA	0.00	8.10	740.73	NA	NA	0.00	8.35	740.48	NA	NA	0.00	7.11	741.72	NA
36-100	750.54	--	NA	0.00	13.34	737.20	NA	NA	0.00	13.34	737.20	NA	NA	0.00	12.48	738.06	NA
36-101	750.11	--	NA	0.00	14.11	736.00	NA	NA	0.00	14.33	735.78	NA	NA	0.00	13.27	736.84	NA
36-120	754.47	--	NA	0.00	12.62	741.85	NA	NA	0.00	13.33	741.14	NA	NA	0.00	12.04	742.43	NA
36-121	753.79	--	NA	0.00	17.04	736.75	NA	NA	0.00	16.88	736.91	NA	NA	0.00	16.33	737.46	NA
36-160	750.12	0.9	11.66	5.12	16.78	733.34	737.95	--	--	--	--	--	10.50	0.65	11.15	738.97	739.56
36-161	745.46	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	4.89	--	NA
37-01	750.37	--	NA	0.00	9.33	741.04	NA	NA	0.00	10.85	739.52	NA	NA	0.00	10.08	740.29	NA
38-120	748.43	--	NA	0.00	14.01	734.42	NA	NA	0.00	14.10	734.33	NA	NA	0.00	13.06	735.37	NA
40-1	733.43	--	NA	0.00	4.14	729.29	NA	NA	0.00	3.40	730.03	NA	--	--	--	--	--

Table X-1 **Groundwater Level Data:**
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	April 3-4, 2001					September 10-11, 2001					June 10-11, 2002				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
40-1R	733.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
40-1R2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
40-2	736.47	--	NA	0.00	7.38	729.09	NA	NA	0.00	7.88	728.59	NA	--	--	--	--	--
40-3	737.01	--	NA	0.00	18.25	718.76	NA	NA	0.00	18.23	718.78	NA	--	--	--	--	--
40-301	732.05	--	NA	0.00	8.20	723.85	NA	NA	0.00	8.72	723.33	NA	NA	0.00	11.87	720.18	NA
40-302	732.96	--	NA	0.00	7.51	725.45	NA	NA	0.00	7.35	725.61	NA	--	--	--	--	--
40-303	729.41	--	NA	0.00	4.09	725.32	NA	--	--	--	--	--	NA	0.00	3.82	725.59	NA
40-303R	730.41	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	13.50	716.91	NA
40-304	731.11	--	NA	0.00	2.81	728.30	NA	NA	0.00	2.72	728.39	NA	--	--	--	--	--
40-305	731.24	--	NA	0.00	5.02	726.22	NA	NA	0.00	4.31	726.93	NA	NA	0.00	5.04	726.20	NA
40-4	738.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
40-4R	737.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
40-5	735.84	0.92	6.14	0.02	6.16	729.68	729.70	NA	0.00	9.28	726.56	NA	--	--	--	--	--
40-6	735.53	--	NA	0.00	6.45	729.08	NA	NA	0.00	7.17	728.36	NA	--	--	--	--	--
40-6R	735.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
40-07	733.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
40-07R	733.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
40-07R2	735.37	0.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
43-100	753.07	--	NA	0.00	11.84	741.23	NA	NA	0.00	11.63	741.44	NA	NA	0.00	11.28	741.79	NA
43-101R	752.60	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	11.07	741.53	NA
43-102	752.63	--	NA	0.00	10.15	742.48	NA	--	--	--	--	--	NA	0.00	11.63	741.00	NA
43-103	752.10	--	NA	0.00	8.89	743.21	NA	NA	0.00	8.91	743.19	NA	NA	0.00	8.36	743.74	NA
43-140	750.14	--	NA	0.00	9.70	740.44	NA	NA	0.00	9.80	740.34	NA	NA	0.00	9.18	740.96	NA
43-141	752.78	--	NA	0.00	12.30	740.48	NA	NA	0.00	12.60	740.18	NA	NA	0.00	10.27	742.51	NA
43-160	750.43	0.92	9.39	1.95	11.34	739.09	740.88	9.44	0.38	9.82	740.61	740.96	NA	0.00	9.16	741.27	NA
43-161	750.19	0.92	9.28	1.92	11.20	738.99	740.76	9.31	0.25	9.56	740.63	740.86	NA	0.00	8.97	741.22	NA
43-162	749.90	0.92	8.90	2.24	11.14	738.76	740.82	8.81	1.95	10.76	739.14	740.93	8.40	2.05	10.45	739.45	741.34
43-163	749.65	0.92	8.25	3.59	11.84	737.81	741.11	8.60	0.48	9.08	740.57	741.01	8.04	0.67	8.71	740.94	741.56
43-164	749.59	0.92	8.37	0.75	9.12	740.47	741.16	8.56	0.06	8.62	740.97	741.03	8.00	0.11	8.11	741.48	741.58
43-165	749.41	0.92	7.78	5.55	13.33	736.08	741.19	8.26	3.48	11.74	737.67	740.87	7.41	1.22	8.63	740.78	741.90
43-166	747.97	--	NA	0.00	7.15	740.82	NA	NA	0.00	7.10	740.87	NA	NA	0.00	6.54	741.43	NA
43-167	748.43	--	NA	0.00	7.90	740.53	NA	NA	0.00	7.71	740.72	NA	NA	0.00	7.26	741.17	NA
43-168	750.10	--	NA	0.00	9.63	740.47	NA	NA	0.00	9.38	740.72	NA	NA	0.00	9.00	741.10	NA
43-169	750.32	--	NA	0.00	9.56	740.76	NA	NA	0.00	9.39	740.93	NA	NA	0.00	8.99	741.33	NA
43-220	753.95	--	--	--	--	--	--	NA	0.00	11.91	742.04	NA	NA	0.00	11.31	742.64	NA
43-242	753.64	--	NA	0.00	12.28	741.36	NA	NA	0.00	12.54	741.10	NA	NA	0.00	11.99	741.65	NA
55-1	753.43	--	NA	0.00	10.66	742.77	NA	NA	0.00	11.80	741.63	NA	NA	0.00	11.46	741.97	NA
55-2	753.06	--	NA	0.00	11.22	741.84	NA	NA	0.00	11.71	741.35	NA	NA	0.00	10.89	742.17	NA
55-3	753.52	--	NA	0.00	11.44	742.08	NA	NA	0.00	11.39	742.13	NA	NA	0.00	11.08	742.44	NA
55-4	753.59	--	NA	0.00	10.49	743.10	NA	NA	0.00	10.59	743.00	NA	NA	0.00	10.11	743.48	NA
55-5	753.94	--	NA	0.00	12.34	741.60	NA	NA	0.00	12.31	741.63	NA	NA	0.00	11.98	741.96	NA
70-100	742.36	--	NA	0.00	5.86	736.50	NA	NA	0.00	7.52	734.84	NA	NA	0.00	6.02	736.34	NA
70-101	742.68	0.91	3.22	1.58	4.80	737.88	739.32	4.88	0.95	5.83	736.85	737.71	NA	0.00	3.46	739.22	NA
70-102	742.75	--	NA	0.00	3.90	738.85	NA	--	--	--	--	--	NA	0.00	3.72	739.03	NA
70-102R	742.56	0.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
70-103	743.78	0.91	4.09	0.89	4.98	738.80	739.61	5.59	0.43	6.02	737.76	738.15	4.20	0.47	4.67	739.11	739.54
70-104	743.51	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	4.05	739.46	NA
70-105	743.58	--	--	--	--	--	--	NA	0.00	7.04	736.54	NA	NA	0.00	5.12	738.46	NA
70-106	743.60	--	--	--	--	--	--	NA	0.00	6.83	736.77	NA	NA	0.00	4.84	738.76	NA
70-107	742.58	--	NA	0.00	6.86	735.72	NA	NA	0.00	7.45	735.13	NA	NA	0.00	6.55	736.03	NA
70-107R	742.80	0.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
70-108	744.06	0.91	4.61	1.64	6.25	737.81	739.30	6.05	0.08	6.13	737.93	738.00	4.43	0.68	5.11	738.95	739.57
70-108R	743.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
70-109	741.60	--	NA	0.00	2.95	738.65	NA	NA	0.00	4.14	737.46	NA	NA	0.00	3.09	738.51	NA
70-160	739.41	--	NA	0.00	9.83	729.58	NA	NA	0.00	9.98	729.43	NA	NA	0.00	9.14	730.27	NA
70-162	743.45	--	NA	0.00	3.67	739.78	NA	--	--	--	--	--	NA	0.00	3.92	739.53	NA
70-163	742.59	--	NA	0.00	3.92	738.67	NA	NA	0.00	5.18	737.41	NA	NA	0.00	3.81	738.78	NA

Table X-1

Groundwater Level Data:
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	April 3-4, 2001					September 10-11, 2001					June 10-11, 2002				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
70-164	742.37	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	4.00	738.37	NA
70-165	741.26	--	NA	0.00	3.59	737.67	NA	NA	0.00	5.28	735.98	NA	NA	0.00	3.44	737.82	NA
84-1	727.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
84-3	727.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
84-4	727.25	--	NA	0.00	7.53	719.72	NA	--	--	--	--	--	--	--	--	--	--
84-5	727.87	--	NA	0.00	9.27	718.60	NA	--	--	--	--	--	NA	0.00	7.62	720.25	NA
84-6	726.49	--	NA	0.00	11.78	714.71	NA	--	--	--	--	--	NA	0.00	7.41	719.08	NA
84-6R	720.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
84-6R2	727.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
84-6R2-D	726.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
84-7	727.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
84-7-D	727.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
86-1	743.20	--	NA	0.00	8.93	734.27	NA	--	--	--	--	--	NA	0.00	9.01	734.19	NA
86-100	740.05	--	NA	0.00	6.38	733.67	NA	NA	0.00	17.34	722.71	NA	NA	0.00	5.31	734.74	NA
86-2	742.93	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	8.85	734.08	NA
86-3	746.31	--	--	--	--	--	--	NA	0.00	15.33	730.98	NA	NA	0.00	13.25	733.06	NA
87-FP1	715.79	--	NA	0.00	2.20	713.59	NA	--	--	--	--	--	NA	0.00	1.69	714.10	NA
87-FP2	742.24	--	--	--	--	--	--	NA	0.00	13.34	728.90	NA	NA	0.00	13.82	728.42	NA
87-FP3	739.07	--	NA	0.00	10.49	728.58	NA	NA	0.00	10.83	728.24	NA	NA	0.00	11.38	727.69	NA
87-FP4	742.11	--	NA	0.00	21.04	721.07	NA	--	--	--	--	--	--	--	Dry	Dry	NA
87-FP5	741.01	--	NA	0.00	11.27	729.74	NA	NA	0.00	11.57	729.44	NA	NA	0.00	11.71	729.30	NA
87-FPD2	742.05	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	29.12	712.93	NA
87-FPD3	742.05	--	NA	0.00	13.05	729.00	NA	--	--	--	--	--	NA	0.00	26.18	715.87	NA
88-1	741.09	--	NA	0.00	6.00	735.09	NA	--	--	--	--	--	--	--	--	--	--
88-2	741.37	--	NA	0.00	7.10	734.27	NA	--	--	--	--	--	NA	0.00	6.80	734.57	NA
88-4	741.37	--	NA	0.00	7.33	734.04	NA	--	--	--	--	--	NA	0.00	6.62	734.75	NA
88-5	742.01	--	NA	0.00	7.75	734.26	NA	--	--	--	--	--	NA	0.00	7.10	734.91	NA
88-6	741.60	--	NA	0.00	7.70	733.90	NA	--	--	--	--	--	NA	0.00	6.95	734.65	NA
88-7	742.20	--	NA	0.00	6.35	735.85	NA	--	--	--	--	--	NA	0.00	5.56	736.64	NA
88-8	741.53	--	NA	0.00	7.24	734.29	NA	--	--	--	--	--	NA	0.00	7.44	734.09	NA
88-9	741.86	--	NA	0.00	8.18	733.68	NA	--	--	--	--	--	NA	0.00	6.60	735.26	NA
94-100	720.36	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	7.48	712.88	NA
ACSP-B2AR	738.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BD01-01	744.29	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	25.58	718.71	NA
BD01-02R	736.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BD01-03	733.49	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	20.76	712.73	NA
BD01-04	736.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-1	724.64	--	NA	0.00	11.42	713.22	NA	--	--	--	--	--	NA	0.00	11.25	713.39	NA
GM-10	725.79	--	NA	0.00	12.55	713.24	NA	--	--	--	--	--	NA	0.00	12.39	713.40	NA
GM-11	730.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-12	738.62	--	NA	0.00	22.50	716.12	NA	--	--	--	--	--	NA	0.00	24.26	714.36	NA
GM-2	725.40	--	NA	0.00	11.28	714.12	NA	--	--	--	--	--	NA	0.00	10.90	714.50	NA
GM-3	725.54	--	NA	0.00	12.28	713.26	NA	--	--	--	--	--	NA	0.00	12.12	713.42	NA
GM-4	738.12	--	NA	0.00	24.45	713.67	NA	--	--	--	--	--	NA	0.00	20.20	717.92	NA
GM-5	737.05	--	NA	0.00	23.35	713.70	NA	--	--	--	--	--	NA	0.00	8.35	728.70	NA
GM-6	734.96	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	21.19	713.77	NA
GM-7	739.81	--	NA	0.00	25.70	714.11	NA	--	--	--	--	--	NA	0.00	25.53	714.28	NA
GM-8	738.71	--	NA	0.00	22.47	716.24	NA	--	--	--	--	--	NA	0.00	22.06	716.65	NA
GM-9	724.39	--	NA	0.00	11.16	713.23	NA	--	--	--	--	--	NA	0.00	10.97	713.42	NA
MW-00-FP6	740.73	--	NA	0.00	17.51	723.22	NA	--	--	--	--	--	--	--	Dry	Dry	--
MW-00-FP7	740.73	--	NA	0.00	17.51	723.22	NA	--	--	--	--	--	--	--	Dry	Dry	--
MW-00-FP8	741.43	--	NA	0.00	17.69	723.74	NA	--	--	--	--	--	NA	0.00	17.70	723.73	NA
MW-07-01	732.42	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	15.10	717.32	NA
MW-07-02	736.75	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	7.24	729.51	NA
MW-16	713.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17	714.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-18	714.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table X-1

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RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	April 3-4, 2001					September 10-11, 2001					June 10-11, 2002				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
MW-19	712.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-20	714.02	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	4.51	--	NA
MW-21	716.51	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	3.24	--	NA
MW-22	719.37	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	6.87	--	NA
MW-23	719.89	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	4.95	--	NA
MW-24	724.81	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	4.20	--	NA
MW-25	722.38	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	8.29	--	NA
MW-26	722.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OW-3D	736.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OW-3S	738.34	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	9.42	728.92	NA
OW-5	725.32	--	NA	0.00	8.56	716.76	NA	--	--	--	--	--	NA	0.00	22.03	703.29	NA
P-1	751.11	0.92	11.30	3.50	14.80	736.31	739.53	10.36	0.65	11.01	740.10	740.70	10.73	0.02	10.75	740.36	740.38
P-2	751.30	0.92	10.89	4.66	15.55	735.75	740.04	9.69	5.51	15.20	736.10	741.17	10.17	1.03	11.20	740.10	741.05
RFI-02-05	738.88	--	--	--	--	--	--	NA	0.00	4.97	733.91	NA	--	--	--	--	--
RFI-02-07	735.06	--	--	--	--	--	--	NA	0.00	6.58	728.48	NA	NA	0.00	21.58	713.48	NA
RFI-02-08	736.06	--	--	--	--	--	--	NA	0.00	8.61	727.45	NA	NA	0.00	21.57	714.49	NA
RFI-02-08R	736.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-02-12	738.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-02-13	731.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-02-14	738.73	0.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-02-15	738.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-02-16	738.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-02-17	738.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-02-18	738.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-02-19	738.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-02-20	738.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-02-21	738.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-02-22	729.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-02-23	738.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-02-24	729.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-03-01	748.38	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	8.38	740.00	NA
RFI-03-02	742.35	--	--	--	--	--	--	NA	0.00	7.41	734.94	NA	NA	0.00	3.93	738.42	NA
RFI-03-03	742.01	--	--	--	--	--	--	NA	0.00	2.45	739.56	NA	NA	0.00	7.90	734.11	NA
RFI-03-04	746.67	--	--	--	--	--	--	NA	0.00	7.63	739.04	NA	NA	0.00	6.69	739.98	NA
RFI-03-15R	747.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-05-01	750.38	--	--	--	--	--	--	NA	0.00	9.72	740.66	NA	NA	0.00	9.33	741.05	NA
RFI-05-02	754.10	--	--	--	--	--	--	NA	0.00	13.28	740.82	NA	NA	0.00	12.93	741.17	NA
RFI-05-03	752.43	--	--	--	--	--	--	NA	0.00	10.63	741.80	NA	NA	0.00	10.41	742.02	NA
RFI-05-04	754.32	--	NA	0.00	11.95	742.37	NA	NA	0.00	12.19	742.13	NA	NA	0.00	11.73	742.59	NA
RFI-05-05	754.34	--	NA	0.00	12.55	741.79	NA	NA	0.00	12.70	741.64	NA	NA	0.00	12.36	741.98	NA
RFI-05-06	752.13	--	--	--	--	--	--	NA	0.00	11.63	740.50	NA	NA	0.00	11.45	740.68	NA
RFI-05-07	754.38	--	NA	0.00	11.44	742.94	NA	NA	0.00	11.85	742.53	NA	NA	0.00	11.14	743.24	NA
RFI-05-08	755.77	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	12.75	743.02	NA
RFI-05-08R	755.78	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	12.80	--	NA
RFI-05-09	751.65	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	9.74	741.91	NA
RFI-05-10	754.21	--	NA	0.00	13.23	740.98	NA	NA	0.00	13.27	740.94	NA	NA	0.00	12.97	741.24	NA
RFI-05-11	754.42	0.92	--	--	--	--	--	13.09	3.21	16.30	738.12	741.07	--	--	--	--	--
RFI-05-12	754.03	--	NA	0.00	13.27	740.76	NA	NA	0.00	12.83	741.20	NA	NA	0.00	12.41	741.62	NA
RFI-05-13	754.16	0.92	12.41	3.84	16.25	737.91	741.44	12.68	0.05	12.73	741.43	741.48	12.33	3.45	15.78	738.38	741.55
RFI-05-14	754.12	0.92	--	--	--	--	--	12.90	2.05	14.95	739.17	741.06	12.28	2.27	14.55	739.57	741.66
RFI-05-19D	749.31	--	--	--	--	--	--	NA	0.00	10.75	738.56	NA	--	--	--	--	--
RFI-05-19DR	749.48	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	13.08	736.40	NA
RFI-05-19S	749.48	--	--	--	--	--	--	NA	0.00	9.39	740.09	NA	NA	0.00	8.71	740.77	NA
RFI-05-20	750.41	--	--	--	--	--	--	NA	0.00	9.90	740.51	NA	NA	0.00	9.29	741.12	NA
RFI-05-21	748.73	--	--	--	--	--	--	NA	0.00	8.06	740.67	NA	NA	0.00	7.39	741.34	NA
RFI-05-30	748.55	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	7.72	--	NA
RFI-05-East	753.59	0.92	--	--	--	--	--	--	--	--	--	--	12.20	2.37	14.57	739.02	741.20

Table X-1

Groundwater Level Data:
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	April 3-4, 2001					September 10-11, 2001					June 10-11, 2002				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
RFI-05-North	753.55	0.92	--	--	--	--	--	--	--	--	--	--	12.17	1.72	13.89	739.66	741.24
RFI-05-South	754.08	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	13.11	740.97	NA
RFI-07-01	730.56	--	--	--	--	--	--	NA	0.00	8.54	722.02	NA	NA	0.00	7.23	723.33	NA
RFI-07-01R	736.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-07-01R2	736.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-07-03	726.74	--	--	--	--	--	--	NA	0.00	5.59	721.15	NA	NA	0.00	1.54	725.20	NA
RFI-07-08	728.12	--	--	--	--	--	--	NA	0.00	12.91	715.21	NA	NA	0.00	12.20	715.92	NA
RFI-09-01	725.15	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	5.40	719.75	NA
RFI-09-01R	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-09-04	725.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-09-04R	725.95	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	15.10	710.85	NA
RFI-09-06	727.66	--	--	--	--	--	--	NA	0.00	6.33	721.33	NA	NA	0.00	5.16	722.50	NA
RFI-09-07	727.51	0.75	--	--	--	--	--	NA	0.00	7.86	719.65	NA	NA	0.00	6.27	721.24	NA
RFI-09-08	728.45	--	--	--	--	--	--	NA	0.00	9.34	719.11	NA	NA	0.00	8.20	720.25	NA
RFI-09-08D	728.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-09-09	728.20	--	--	--	--	--	--	NA	0.00	6.88	721.32	NA	NA	0.00	5.65	722.55	NA
RFI-09-09D	728.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-09-10	726.45	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	4.52	721.93	NA
RFI-09-11	728.85	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	6.55	722.30	NA
RFI-09-11D	728.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-09-12	731.39	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	3.45	727.94	NA
RFI-09-13	725.09	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	7.00	718.09	NA
RFI-09-14	724.44	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	5.36	719.08	NA
RFI-09-32	723.85	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	7.95	--	NA
RFI-09-36R	725.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-09-40R	729.76	0.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-09-44	728.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-09-45	730.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-09-45R	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-09-46	723.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-09-47	729.64	0.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-09-49	726.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-09-49R	726.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-09-52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-09-53	725.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-09-54S	728.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-09-54D	728.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-09-55S	728.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-09-55D	728.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-09-56	726.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-09-57	724.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-09-58	723.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-10-01	749.11	--	--	--	--	--	--	NA	0.00	8.34	740.77	NA	NA	0.00	7.43	741.68	NA
RFI-10-02	750.54	--	--	--	--	--	--	NA	0.00	8.06	742.48	NA	NA	0.00	7.80	742.74	NA
RFI-10-03	751.79	--	--	--	--	--	--	NA	0.00	10.46	741.33	NA	NA	0.00	9.50	742.29	NA
RFI-10-04	750.64	--	--	--	--	--	--	NA	0.00	9.30	741.34	NA	NA	0.00	8.18	742.46	NA
RFI-10-05	751.57	--	--	--	--	--	--	NA	0.00	10.73	740.84	NA	NA	0.00	9.55	742.02	NA
RFI-10-06	752.17	--	--	--	--	--	--	NA	0.00	11.17	741.00	NA	NA	0.00	9.84	742.33	NA
RFI-10-07	751.33	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	8.89	742.44	NA
RFI-10-08	750.79	--	--	--	--	--	--	NA	0.00	9.57	741.22	NA	NA	0.00	8.42	742.37	NA
RFI-10-11	746.14	--	--	--	--	--	--	NA	0.00	6.11	740.03	NA	NA	0.00	5.04	741.10	NA
RFI-10-12	750.35	--	--	--	--	--	--	NA	0.00	8.70	741.65	NA	NA	0.00	7.68	742.67	NA
RFI-10-15	751.25	--	--	--	--	--	--	NA	0.00	9.97	741.28	NA	NA	0.00	8.81	742.44	NA
RFI-10-24	751.53	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	11.84	--	NA
RFI-10-25	753.10	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	11.67	--	NA
RFI-10-26	749.32	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	7.48	741.84	NA
RFI-10-28	752.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table X-1

Groundwater Level Data:
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	April 3-4, 2001					September 10-11, 2001					June 10-11, 2002				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
RFI-10-29	752.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-10-30	745.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-10-31	746.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-10-32	754.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-10-33	755.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-10-34	755.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-10-35	755.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-10-36	752.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-12-01R	741.98	0.93	--	--	--	--	--	--	--	--	--	--	NA	0.00	12.16	729.82	NA
RFI-12-02	742.41	0.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-12-02R	742.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-12-07R	742.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-12-07R2	741.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-12-08 (Replaced)	742.08	0.93	--	--	--	--	--	--	--	--	--	--	NA	0.00	12.74	729.34	NA
RFI-12-09	742.68	0.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-12-09R	741.97	0.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-12-11D	742.09	0.93	--	--	--	--	--	14.01	0.42	14.43	727.66	728.05	--	--	--	--	--
RFI-12-11S	742.17	--	--	--	--	--	--	NA	0.00	7.07	735.10	NA	--	--	--	--	--
RFI-12-14	742.15	--	--	--	--	--	--	NA	0.00	23.25	718.90	NA	--	--	--	--	--
RFI-12-14R	742.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-12-15	742.13	--	--	--	--	--	--	NA	0.00	10.15	731.98	NA	--	--	--	--	--
RFI-12-21	741.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-12-22	741.99	0.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-12-22R	742.07	0.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-12-23	742.21	0.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-12-24	742.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-12-25	741.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-12-26	742.04	0.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-12-28	742.63	0.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-12-32	738.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-12-33	743.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-12-34	744.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-12-35	743.83	0.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-12-36	743.89	0.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-12-38	742.39	0.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-12-40	741.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-12-41	741.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-16-01	736.10	--	--	--	--	--	--	NA	0.00	9.97	726.13	NA	--	--	--	--	--
RFI-16-04	732.27	--	--	--	--	--	--	NA	0.00	7.82	724.45	NA	--	--	--	--	--
RFI-16-04R	732.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-16-07	733.26	--	--	--	--	--	--	NA	0.00	6.27	726.99	NA	--	--	--	--	--
RFI-16-08	733.24	0.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-16-09	733.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-16-10	736.09	0.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-16-11	736.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-16-12	735.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-16-12R	735.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-16-20	732.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-16-24	736.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-16-25	736.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-17-02	720.27	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	6.32	713.95	NA
RFI-17-02D	720.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-21-04	746.10	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	12.03	734.07	NA
RFI-23-01	742.19	--	--	--	--	--	--	NA	0.00	6.76	735.43	NA	NA	0.00	5.72	736.47	NA
RFI-23-01R	741.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-23-02	740.37	--	--	--	--	--	--	NA	0.00	6.68	733.69	NA	NA	0.00	5.99	734.38	NA
RFI-23-02R	740.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table X-1

Groundwater Level Data:
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	April 3-4, 2001					September 10-11, 2001					June 10-11, 2002				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
RFI-36-01	756.63	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	18.68	737.95	NA
RFI-36-02	751.96	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	14.47	737.49	NA
RFI-36-03	751.31	--	NA	0.00	13.03	738.28	NA	NA	0.00	13.63	737.68	NA	NA	0.00	12.74	738.57	NA
RFI-36-04	756.14	0.83	NA	0.00	18.80	737.34	NA	NA	0.00	18.64	737.50	NA	16.76	1.23	17.99	738.15	739.17
RFI-36-05	755.07	0.83	NA	0.00	17.69	737.38	NA	NA	0.00	17.60	737.47	NA	14.10	2.69	16.79	738.28	740.51
RFI-36-06	755.29	0.83	--	--	--	--	--	--	--	--	--	--	NA	0.00	17.21	738.08	NA
RFI-36-07	753.94	0.83	--	--	--	--	--	--	--	--	--	--	NA	0.00	15.73	738.21	NA
RFI-36-08	749.29	0.83	--	--	--	--	--	NA	0.00	9.30	739.99	NA	NA	0.00	8.48	740.81	NA
RFI-36-09	750.78	--	--	--	--	--	--	NA	0.00	10.33	740.45	NA	NA	0.00	9.38	741.40	NA
RFI-36-10	750.21	--	--	--	--	--	--	NA	0.00	9.64	740.57	NA	NA	0.00	8.98	741.23	NA
RFI-36-11	752.89	0.83	NA	0.00	12.55	740.34	NA	NA	0.00	12.59	740.30	NA	NA	0.00	12.16	740.73	NA
RFI-36-12	753.52	0.83	NA	0.00	11.76	741.76	NA	NA	0.00	11.90	741.62	NA	NA	0.00	10.88	742.64	NA
RFI-36-14	750.00	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	7.51	742.49	NA
RFI-36-15	754.47	0.83	14.49	4.58	19.07	735.40	739.20	--	--	--	--	--	13.79	4.69	18.48	735.99	739.88
RFI-36-16	754.87	0.83	--	--	--	--	--	--	--	--	--	--	15.16	6.06	21.22	733.65	738.68
RFI-36-17	753.93	--	--	--	--	--	--	NA	0.00	17.37	736.56	NA	NA	0.00	16.09	737.84	NA
RFI-36-18	753.12	--	--	--	--	--	--	NA	0.00	16.27	736.85	NA	NA	0.00	15.10	738.02	NA
RFI-36-19	753.31	--	--	--	--	--	--	NA	0.00	15.69	737.62	NA	NA	0.00	14.76	738.55	NA
RFI-36-20	757.01	--	--	--	--	--	--	NA	0.00	19.11	737.90	NA	NA	0.00	18.17	738.84	NA
RFI-36-21	754.72	0.83	--	0.00	17.11	737.61	NA	16.90	0.98	17.88	736.84	737.65	16.08	1.55	17.63	737.09	738.38
RFI-36-22	754.28	0.83	--	0.00	15.58	738.70	NA	13.82	2.44	16.26	738.02	740.05	13.64	3.24	16.88	737.40	740.09
RFI-36-23	754.09	0.83	--	--	--	--	--	14.42	2.60	17.02	737.07	739.23	NA	0.00	13.94	740.15	NA
RFI-36-24	753.92	0.83	--	--	--	--	--	13.41	2.48	15.89	738.03	740.09	NA	0.00	12.58	741.34	NA
RFI-36-25R	754.67	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	14.50	740.17	NA
RFI-36-27	755.46	0.83	--	--	--	--	--	--	--	--	--	--	17.29	0.00	17.89	737.57	738.07
RFI-36-29	753.86	0.83	--	--	--	--	--	NA	0.00	15.19	738.67	NA	NA	0.00	14.68	739.18	NA
RFI-36-29R	753.72	0.83	--	--	--	--	--	--	--	--	--	--	NA	0.00	15.08	738.64	NA
RFI-36-31	753.51	0.83	--	--	--	--	--	13.38	2.99	16.37	737.14	739.62	NA	0.00	12.93	740.58	NA
RFI-36-32	756.28	0.83	--	--	--	--	--	18.86	3.74	22.60	733.68	736.78	NA	0.00	18.39	737.89	NA
RFI-36-35	750.05	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	12.22	737.83	NA
RFI-36-36	750.19	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	8.41	741.78	NA
RFI-36-37	757.15	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	18.60	738.55	NA
RFI-36-43	753.26	0.83	--	--	--	--	--	--	--	--	--	--	12.79	0.01	12.80	740.46	740.47
RFI-36-44	752.45	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	14.32	738.13	NA
RFI-36-45	752.83	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	14.85	737.98	NA
RFI-36-46	750.13	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	12.42	737.71	NA
RFI-36-47	749.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-36-48	757.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-36-49	755.71	0.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-36-51	749.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-36-53	753.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-36-54	756.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-36-55	750.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-36-56	749.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-38-04	751.58	--	--	--	--	--	--	NA	0.00	19.15	732.43	NA	NA	0.00	18.47	733.11	NA
RFI-38-05	750.79	--	--	--	--	--	--	NA	0.00	18.10	732.69	NA	NA	0.00	17.27	733.52	NA
RFI-38-06	749.43	--	--	--	--	--	--	NA	0.00	15.41	734.02	NA	NA	0.00	14.36	735.07	NA
RFI-40-01R	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-40-01R2	734.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-40-02	735.35	0.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-40-03	735.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-40-03R	735.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-40-04	728.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-40-07	729.35	0.92	--	--	--	--	--	--	--	--	--	--	NA	0.00	2.85	726.50	NA
RFI-40-09	731.85	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	12.45	719.40	NA
RFI-40-10R	735.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-40-11	730.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table X-1

Groundwater Level Data:
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	April 3-4, 2001					September 10-11, 2001					June 10-11, 2002				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
RFI-40-12R	743.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-40-13	731.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-40-14R	731.93	0.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-40-16	735.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-40-17	734.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-40-18	731.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-40-20	738.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-40-25	734.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-40-26	738.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-40-27	731.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-44-04	731.89	--	--	--	--	--	--	NA	0.00	6.25	725.64	NA	--	--	--	--	--
RFI-44-05	731.97	--	--	--	--	--	--	NA	0.00	9.61	722.36	NA	--	--	--	--	--
RFI-44-06R	731.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-55-01	751.85	--	--	--	--	--	--	NA	0.00	10.70	741.15	NA	NA	0.00	8.20	743.65	NA
RFI-55-02	752.88	--	--	--	--	--	--	NA	0.00	8.89	743.99	NA	NA	0.00	9.33	743.55	NA
RFI-55-09	753.75	--	--	--	--	--	--	NA	0.00	12.27	741.48	NA	NA	0.00	12.02	741.73	NA
RFI-55-10	751.86	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	10.20	741.66	NA
RFI-55-11	751.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-55-12	752.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-65-01	742.82	--	--	--	--	--	--	NA	0.00	6.48	736.34	NA	NA	0.00	6.42	736.40	NA
RFI-81-02	745.92	--	--	--	--	--	--	NA	0.00	15.43	730.49	NA	NA	0.00	15.20	730.72	NA
RFI-81-03	745.70	--	--	--	--	--	--	NA	0.00	14.45	731.25	NA	NA	0.00	13.71	731.99	NA
RFI-81-08	741.43	--	--	--	--	--	--	NA	0.00	10.72	730.71	NA	NA	0.00	8.45	732.98	NA
RFI-81-09	745.89	--	--	--	--	--	--	NA	0.00	13.63	732.26	NA	NA	0.00	11.86	734.03	NA
RFI-81-11	740.34	--	--	--	--	--	--	NA	0.00	6.73	733.61	NA	NA	0.00	5.51	734.83	NA
RFI-81-12R	742.60	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	5.49	737.11	NA
RFI-81-13	744.61	--	--	--	--	--	--	NA	0.00	11.75	732.86	NA	NA	0.00	11.17	733.44	NA
RFI-81-21	753.80	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	14.08	739.72	NA
RFI-81-22	742.58	--	--	--	--	--	--	NA	0.00	6.28	736.30	NA	NA	0.00	4.37	738.21	NA
RFI-81-33	736.94	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	5.02	731.92	NA
RFI-81-35	743.23	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	13.86	729.37	NA
RFI-81-39R	745.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-81-43	743.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-81-45	742.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-81-47	742.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-81-49	742.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-81-50	740.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-81-51	742.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-83/84-01	741.34	--	--	--	--	--	--	NA	0.00	4.55	736.79	NA	NA	0.00	4.18	737.16	NA
RFI-83/84-02	741.59	--	--	--	--	--	--	NA	0.00	6.68	734.91	NA	NA	0.00	5.40	736.19	NA
RFI-83/84-04	745.51	0.89	--	--	--	--	--	--	--	--	--	--	9.92	0.01	9.93	735.58	735.59
RFI-83/84-06	745.58	0.89	--	--	--	--	--	--	--	--	--	--	10.86	1.94	12.80	732.78	734.51
RFI-83/84-07	746.56	0.88	--	--	--	--	--	--	--	--	--	--	10.60	1.50	12.10	734.46	735.78
RFI-83/84-11	741.61	--	--	--	--	--	--	NA	0.00	7.64	733.97	NA	NA	0.00	7.21	734.40	NA
RFI-83/84-20	745.24	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	8.60	736.64	NA
RFI-83/84-25	745.83	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	12.99	732.84	NA
RFI-83/84-27	745.72	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	13.04	732.68	NA
RFI-83/84-27R	745.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-83/84-29	742.76	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	13.94	728.82	NA
RFI-83/84-44	746.16	0.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-83/84-45	746.22	0.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-83/84-46	746.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-83/84-48	746.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-83/84-49	745.25	0.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-83/84-51	742.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table X-1

Groundwater Level Data:
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	April 3-4, 2001					September 10-11, 2001					June 10-11, 2002				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
RFI-83/84-53	745.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-83/84-54	746.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-84-03S	727.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-84-03I	727.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-84-03D	727.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-84-04I	727.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-84-04D	727.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-84-05	726.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-84-06R	720.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-84-06RD	720.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-84-07	727.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-84-07D	727.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-84-08	727.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-84-08D	727.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-84-09S	719.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-84-09D	719.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-84-10S	718.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-84-10D	718.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-84-11S	721.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-85-02R	742.91	0.86	--	--	--	--	--	--	--	--	--	--	NA	0.00	10.87	732.04	NA
RFI-85-03	746.21	--	--	--	--	--	--	NA	0.00	14.74	731.47	NA	NA	0.00	13.63	732.58	NA
RFI-85-04	746.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-85-04R	745.95	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	20.40	725.55	NA
RFI-85-05	745.95	--	--	--	--	--	--	NA	0.00	21.80	724.15	NA	NA	0.00	21.62	724.33	NA
RFI-85-06	742.43	0.86	--	--	--	--	--	13.20	0.01	13.21	729.22	729.23	NA	0.00	12.50	729.93	NA
RFI-85-07	745.97	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	14.04	731.93	NA
RFI-85-08	746.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-86-01	735.80	--	--	--	--	--	--	NA	0.00	21.89	713.91	NA	--	--	--	--	--
RFI-86-01R	735.51	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	8.99	726.52	NA
RFI-86-01D	735.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-86-02	735.65	0.87	--	--	--	--	--	--	--	--	--	--	NA	0.00	8.86	726.79	NA
RFI-86-03	736.62	0.87	--	--	--	--	--	NA	0.00	8.02	728.60	NA	NA	0.00	6.68	729.94	NA
RFI-86-04	737.29	--	--	--	--	--	--	NA	0.00	3.99	733.30	NA	NA	0.00	3.44	733.85	NA
RFI-86-05	742.47	--	--	--	--	--	--	NA	0.00	11.36	731.11	NA	NA	0.00	9.39	733.08	NA
RFI-86-06D	737.21	--	--	--	--	--	--	NA	0.00	17.18	720.03	NA	NA	0.00	11.76	725.45	NA
RFI-86-06S	737.32	--	--	--	--	--	--	NA	0.00	12.31	725.01	NA	NA	0.00	19.90	717.42	NA
RFI-86-08R	743.25	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	11.77	731.48	NA
RFI-86-12	738.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-86-14	731.80	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	15.80	716.00	NA
RFI-86-15	718.03	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	4.30	713.73	NA
RFI-86-16	731.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-86-16R	731.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-94-02R	727.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-94-05	727.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-94-07	720.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-94-08	727.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-94-09	719.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-94-10	719.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-94-11	719.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-SS-01	716.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-SS-02	716.18	0.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-SS-03	742.62	0.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-SS-04	745.79	0.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-SS-05	746.05	0.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table X-1 **Groundwater Level Data:**
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	April 3-4, 2001					September 10-11, 2001					June 10-11, 2002				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
RFI-SS-06	745.94	0.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-SS-08	750.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI-SS-09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-1-P1	751.11	0.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-1-P2	751.30	0.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-6-P1	753.39	--	--	--	--	--	--	NA	0.00	12.51	740.88	NA	--	--	--	--	--
RW-7-P1	753.23	--	--	--	--	--	--	NA	0.00	12.69	740.54	NA	NA	0.00	11.96	741.27	NA
RW-3A-P1	750.73	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	8.38	742.35	NA
RW-3A-P2	750.40	--	--	--	--	--	--	--	--	--	--	--	NA	0.00	8.18	742.22	NA
Dort Bridge	722.95	--	--	--	--	--	--	NA	0.00	15.15	707.80	NA	--	--	--	--	--
Fifth Bridge	720.33	--	--	--	--	--	--	NA	0.00	12.65	707.68	NA	--	--	--	--	--
Hamilton Bridge	722.61	--	--	--	--	--	--	NA	0.00	14.90	707.71	NA	--	--	--	--	--
Hamilton Bridge 2005	720.09	--	--	--	--	--	--	NA	0.00	14.90	705.19	NA	--	--	--	--	--

Table X-1

Groundwater Level Data:
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	March 17-18, 2003					December 2004					April 15, 2005				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
03-01	744.67	0.9	5.82	1.70	7.52	737.15	738.68	--	--	--	--	NA	--	--	--	--	NA
03-01R	744.90	--	--	--	--	--	--	NA	0.00	4.28	740.62	NA	--	--	--	--	NA
03-02	743.24	--	NA	0.00	5.21	738.03	NA	--	--	--	--	NA	--	--	--	--	NA
03-3	747.01	0.9	12.44	0.01	12.45	734.56	734.57	--	--	--	--	NA	--	--	--	--	NA
03-3R	746.47	0.9	--	--	--	--	--	10.74	1.75	12.49	733.98	735.56	--	--	--	--	NA
03-101	--	0.9	10.16	0.01	10.17	--	--	--	--	--	--	NA	--	--	--	--	NA
03-101R	747.95	--	--	--	--	--	--	NA	0.00	7.50	740.45	NA	--	--	--	--	NA
03-105	748.16	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
03-105R	747.76	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
03-105R2	748.16	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
03-109	747.40	--	NA	0.00	10.61	736.79	NA	--	--	--	--	NA	--	--	--	--	NA
03-110	746.95	--	NA	0.00	8.69	738.26	NA	NA	0.00	6.44	740.51	NA	--	--	--	--	NA
03-110R	746.76	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
03-111	744.70	--	NA	0.00	5.72	738.98	NA	--	--	--	--	NA	--	--	--	--	NA
03-112	747.21	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
03-113	--	--	NA	0.00	7.46	--	NA	--	--	--	--	NA	--	--	--	--	NA
03-114	746.49	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
03-114R	746.27	--	NA	0.00	12.25	734.02	NA	NA	0.00	11.54	734.73	NA	--	--	--	--	NA
04-1	731.03	--	NA	0.00	3.81	727.22	NA	NA	0.00	3.63	727.40	NA	--	--	--	--	NA
04-2	730.37	--	NA	0.00	6.31	724.06	NA	NA	0.00	5.95	724.42	NA	--	--	--	--	NA
04-3	730.19	--	NA	0.00	7.87	722.32	NA	NA	0.00	6.79	723.40	NA	--	--	--	--	NA
04-4	--	--	NA	0.00	7.85	--	NA	NA	0.00	6.49		NA	--	--	--	--	NA
04-5	730.69	--	NA	0.00	8.21	722.48	NA	NA	0.00	7.83	722.86	NA	--	--	--	--	NA
04-6R	735.00	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
04-120	750.52	--	NA	0.00	12.50	738.02	NA	NA	0.00	17.02	733.50	NA	--	--	--	--	NA
04-121	752.12	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
04-140	751.06	--	--	--	Dry	Dry	--	--	--	--	--	NA	--	--	--	--	NA
04-160	729.13	--	NA	0.00	14.40	714.73	NA	NA	0.00	12.88	716.25	NA	--	--	--	--	NA
07-01	732.41	--	--	--	--	--	--	NA	0.00	15.25	717.16	NA	--	--	--	--	NA
07-02	727.47	--	NA	0.00	8.92	718.55	NA	NA	0.00	6.42	721.05	NA	--	--	--	--	NA
11-120	747.44	--	--	--	--	--	--	NA	0.00	8.91	738.53	NA	--	--	--	--	NA
11-140	741.78	--	--	--	--	--	--	NA	0.00	13.18	728.60	NA	--	--	--	--	NA
20-100	750.80	--	NA	0.00	10.62	740.18	NA	NA	0.00	9.03	741.77	NA	--	--	--	--	NA
20-101	752.60	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
20-101R	751.69	--	NA	0.00	12.19	739.50	NA	--	--	--	--	NA	--	--	--	--	NA
20-101RD	752.13	--	NA	0.00	12.20	739.93	NA	NA	0.00	11.23	740.90	NA	--	--	--	--	NA
20-102	752.30	--	NA	0.00	11.14	741.16	NA	--	--	--	--	NA	--	--	--	--	NA
20-102R	751.68	--	--	--	--	--	--	NA	0.00	9.72	741.96	NA	--	--	--	--	NA
20-103N	751.69	--	NA	0.00	11.75	739.94	NA	NA	0.00	10.10	741.59	NA	--	--	--	--	NA
20-103S	751.67	--	NA	0.00	11.72	739.95	NA	NA	0.00	10.10	741.57	NA	--	--	--	--	NA
20-105R	751.91	--	NA	0.00	11.51	740.40	NA	NA	0.00	10.12	741.79	NA	--	--	--	--	NA
20-120	749.45	--	NA	0.00	8.26	741.19	NA	NA	0.00	8.00	741.45	NA	--	--	--	--	NA
20-121	753.25	--	NA	0.00	11.96	741.29	NA	NA	0.00	11.81	741.44	NA	--	--	--	--	NA
20-122	752.40	--	NA	0.00	12.32	740.08	NA	NA	0.00	11.78	740.62	NA	--	--	--	--	NA
20-140	752.80	--	NA	0.00	11.59	741.21	NA	NA	0.00	11.18	741.62	NA	--	--	--	--	NA
20-141	753.25	--	NA	0.00	9.15	744.10	NA	NA	0.00	8.67	744.58	NA	--	--	--	--	NA
20-142	749.60	--	NA	0.00	8.66	740.94	NA	NA	0.00	8.15	741.45	NA	--	--	--	--	NA
20-143	749.25	--	NA	0.00	9.66	739.59	NA	NA	0.00	9.14	740.11	NA	--	--	--	--	NA
20-144	749.90	--	NA	0.00	9.26	740.64	NA	NA	0.00	8.19	741.71	NA	--	--	--	--	NA
20-145	749.34	--	NA	0.00	9.95	739.39	NA	NA	0.00	9.11	740.23	NA	--	--	--	--	NA
20-146	--	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
20-160	752.81	0.99	NA	0.00	12.73	740.08	NA	NA	0.00	11.52	741.29	NA	--	--	--	--	NA
20-162	753.48	0.99	13.09	0.01	13.10	740.38	740.39	12.14	0.58	12.72	740.76	741.33	--	--	--	--	NA
20-163	750.44	0.99	10.85	5.18	16.03	734.41	739.54	--	--	--	--	NA	--	--	--	--	NA
20-163R	750.58	0.99	--	--	--	--	--	9.54	5.41	14.95	735.63	740.99	--	--	--	--	NA
20-164	751.14	0.99	NA	0.00	12.04	739.10	NA	NA	0.00	10.96	740.18	NA	--	--	--	--	NA
20-165	749.97	--	NA	0.00	11.15	738.82	NA	NA	0.00	10.80	739.17	NA	--	--	--	--	NA

Table X-1

Groundwater Level Data:
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	March 17-18, 2003					December 2004					April 15, 2005				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
20-167	753.34	0.99	--	--	--	--	--	NA	0.00	12.85	740.49	NA	--	--	--	--	NA
20-168	753.44	0.99	--	--	--	--	--	NA	0.00	13.85	739.59	NA	--	--	--	--	NA
20-169	753.38	0.99	NA	0.00	13.72	739.66	NA	NA	0.00	13.02	740.36	NA	--	--	--	--	NA
20-170	748.22	0.99	9.38	0.08	9.46	738.76	738.84	NA	0.00	7.65	740.57	NA	--	--	--	--	NA
20-171	748.20	--	NA	0.00	8.38	739.82	--	NA	0.00	7.12	741.08	NA	--	--	--	--	NA
20-500	750.63	--	NA	0.00	10.40	740.23	NA	--	--	--	--	NA	--	--	--	--	NA
20-500R	750.77	--	--	--	--	--	--	NA	0.00	9.12	741.65	NA	--	--	--	--	NA
20-501	750.63	--	NA	0.00	8.97	741.66	NA	NA	0.00	8.51	742.12	NA	--	--	--	--	NA
20-502	751.29	0.99	11.20	1.53	12.73	738.56	740.07	9.63	1.39	11.02	740.27	741.65	--	--	--	--	NA
20-503	751.54	0.99	12.25	0.78	13.03	738.51	739.28	10.68	1.05	11.73	739.81	740.85	--	--	--	--	NA
20-504	749.74	--	NA	0.00	10.10	739.64	NA	--	--	--	--	NA	--	--	--	--	NA
20-505D	752.20	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
20-505S	750.54	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
20-506	751.35	--	NA	0.00	12.70	738.65	NA	NA	0.00	9.61	741.74	NA	--	--	--	--	NA
20-FP-1	752.17	0.99	NA	0.00	12.42	739.75	NA	--	--	--	--	NA	--	--	--	--	NA
20-FP-10	747.25	--	NA	0.00	8.11	739.14	NA	--	--	--	--	NA	--	--	--	--	NA
20-FP-11	743.97	--	NA	0.00	5.57	738.40	NA	--	--	--	--	NA	--	--	--	--	NA
20-FP-11R	744.09	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
20-FP-12	742.51	--	NA	0.00	3.41	739.10	NA	--	--	--	--	NA	--	--	--	--	NA
20-FP-2	753.51	--	NA	0.00	13.06	740.45	NA	NA	0.00	12.19	741.32	NA	--	--	--	--	NA
20-FP-4R	751.25	0.99	--	--	--	--	--	7.30	1.34	8.64	742.61	743.94	--	--	--	--	NA
20-FP-5	748.82	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
20-FP-6	747.91	--	NA	0.00	9.42	738.49	NA	--	--	--	--	NA	--	--	--	--	NA
20-FP-6R	747.95	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
20-FP-7	748.53	0.99	9.25	0.01	9.26	739.27	739.28	7.55	1.22	8.77	739.76	740.97	--	--	--	--	NA
20-FP-8	748.73	0.99	9.28	0.39	9.67	739.06	739.45	7.61	1.34	8.95	739.78	741.11	--	--	--	--	NA
20-FP-9	749.45	--	NA	0.00	9.99	739.46	NA	--	--	--	--	NA	--	--	--	--	NA
20-FP-10	747.28	--	--	--	--	--	--	NA	0.00	6.38	740.90	NA	--	--	--	--	NA
30-100	747.24	--	NA	0.00	10.28	736.96	NA	--	--	--	--	NA	--	--	--	--	NA
30-120	747.48	--	NA	0.00	7.08	740.40	NA	NA	0.00	6.10	741.38	NA	--	--	--	--	NA
30-140	745.88	--	NA	0.00	5.80	740.08	NA	NA	0.00	5.38	740.50	NA	--	--	--	--	NA
31-1	735.19	--	NA	0.00	10.22	724.97	NA	NA	0.00	7.11	728.08	NA	--	--	--	--	NA
31-2	733.97	--	NA	0.00	8.50	725.47	NA	NA	0.00	5.84	728.13	NA	--	--	--	--	NA
31-3	734.44	--	NA	0.00	9.56	724.88	NA	NA	0.00	6.90	727.54	NA	--	--	--	--	NA
31-4D	733.87	0.92	NA	0.00	9.06	724.81	NA	NA	0.00	4.94	728.93	NA	--	--	--	--	NA
31-4S	733.90	0.92	NA	0.00	9.07	724.83	NA	NA	0.00	5.28	728.62	NA	--	--	--	--	NA
31-5	736.12	--	NA	0.00	11.30	724.82	NA	NA	0.00	9.65	726.47	NA	--	--	--	--	NA
31-6	734.54	--	NA	0.00	8.56	725.98	NA	NA	0.00	7.55	726.99	NA	--	--	--	--	NA
31-7	729.75	0.75	9.04	0.24	9.28	720.47	720.65	NA	0.00	6.29	723.46	NA	--	--	--	--	NA
31-8	730.26	--	NA	0.00	9.30	720.96	NA	NA	0.00	7.42	722.84	NA	--	--	--	--	NA
36 FP1	750.60	--	--	--	--	--	--	NA	0.00	11.97	738.63	NA	--	--	--	--	NA
36 FP2	750.30	0.9	NA	0.00	13.31	736.99	NA	11.87	1.41	13.28	737.02	738.29	--	--	--	--	NA
36 FP3	749.41	0.9	12.07	0.26	12.33	737.08	737.31	10.79	0.40	11.19	738.22	738.58	--	--	--	--	NA
36 FP4	753.70	0.9	16.41	0.12	16.53	737.17	737.28	NA	0.00	15.20	738.50	NA	--	--	--	--	NA
36 FP5	753.84	0.9	NA	0.00	16.58	737.26	NA	NA	0.00	15.46	738.38	NA	--	--	--	--	NA
36 FP6	749.51	0.9	10.47	2.33	12.80	736.71	738.81	8.66	4.84	13.50	736.01	740.37	--	--	--	--	NA
36 FP7	750.02	0.9	12.85	1.83	14.68	735.34	736.99	11.21	3.99	15.20	734.82	738.41	--	--	--	--	NA
36 FP8	748.83	--	NA	0.00	9.48	739.35	NA	NA	0.00	2.78	746.05	NA	--	--	--	--	NA
36-100	750.54	--	NA	0.00	11.49	739.05	NA	NA	0.00	10.63	739.91	NA	--	--	--	--	NA
36-101	750.11	--	NA	0.00	14.19	735.92	NA	NA	0.00	13.66	736.45	NA	--	--	--	--	NA
36-120	754.47	--	NA	0.00	14.16	740.31	NA	NA	0.00	12.74	741.73	NA	--	--	--	--	NA
36-121	753.79	--	NA	0.00	16.90	736.89	NA	NA	0.00	16.19	737.60	NA	--	--	--	--	NA
36-160	750.12	0.9	12.53	0.02	12.55	737.57	737.59	12.62	1.49	14.11	736.01	737.35	--	--	--	--	NA
36-161	745.46	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
37-01	750.37	--	NA	0.00	12.61	737.76	NA	NA	0.00	9.53	740.84	NA	--	--	--	--	NA
38-120	748.43	--	NA	0.00	13.45	734.98	NA	NA	0.00	13.33	735.10	NA	--	--	--	--	NA
40-1	733.43	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA

Table X-1

Groundwater Level Data:
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	March 17-18, 2003					December 2004					April 15, 2005				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
40-1R	733.64	--	NA	0.00	5.12	728.52	NA	--	--	--	--	NA	--	--	--	--	NA
40-1R2	--	--	--	--	--	--	--	NA	0.00	2.60		NA	--	--	--	--	NA
40-2	736.47	--	NA	0.00	9.12	727.35	NA	NA	0.00	6.08	730.39	NA	--	--	--	--	NA
40-3	737.01	--	NA	0.00	18.71	718.30	NA	NA	0.00	14.87	722.14	NA	NA	0.00	15.46	721.55	NA
40-301	732.05	--	NA	0.00	8.27	723.78	NA	NA	0.00	7.57	724.48	NA	--	--	--	--	NA
40-302	732.96	--	NA	0.00	7.18	725.78	NA	NA	0.00	6.48	726.48	NA	--	--	--	--	NA
40-303	729.41	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
40-303R	730.41	--	NA	0.00	14.12	--	--	NA	0.00	12.94	717.47	NA	--	--	--	--	NA
40-304	731.11	--	NA	0.00	3.40	727.71	NA	NA	0.00	3.04	728.07	NA	--	--	--	--	NA
40-305	731.24	--	NA	0.00	4.18	727.06	NA	NA	0.00	4.55	726.69	NA	--	--	--	--	NA
40-4	738.17	--	--	--	Dry	Dry	NA	NA	0.00	13.63	724.54	NA	--	--	--	--	NA
40-4R	737.90	--	NA	0.00	19.80	718.10	NA	NA	0.00	15.77	722.13	NA	NA	0.00	16.52	721.38	NA
40-5	735.84	0.92	NA	0.00	11.02	724.82	NA	NA	0.00	4.95	730.89	NA	--	--	--	--	NA
40-6	735.53	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
40-6R	735.00	--	NA	0.00	6.42	--	NA	NA	0.00	4.46	730.54	NA	NA	0.00	5.45	729.55	NA
40-07	733.63	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
40-07R	733.13	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
40-07R2	735.37	0.92	NA	0.00	17.80	717.57	NA	13.95	0.69	14.64	720.73	721.36	--	--	--	--	NA
43-100	753.07	--	NA	0.00	11.95	741.12	NA	NA	0.00	11.40	741.67	NA	--	--	--	--	NA
43-101R	752.60	--	NA	0.00	11.67	740.93	NA	NA	0.00	11.23	741.37	NA	--	--	--	--	NA
43-102	752.63	--	NA	0.00	12.35	740.28	NA	NA	0.00	12.05	740.58	NA	--	--	--	--	NA
43-103	752.10	--	NA	0.00	9.46	742.64	NA	NA	0.00	8.86	743.24	NA	--	--	--	--	NA
43-140	750.14	--	NA	0.00	10.11	740.03	NA	NA	0.00	8.67	741.47	NA	--	--	--	--	NA
43-141	752.78	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
43-160	750.43	0.92	10.04	0.03	10.07	740.36	740.39	9.56	0.14	9.70	740.73	740.86	--	--	--	--	NA
43-161	750.19	0.92	9.99	4.16	14.15	736.04	739.87	9.40	0.01	9.41	740.78	740.79	--	--	--	--	NA
43-162	749.90	0.92	9.42	2.47	11.89	738.01	740.28	8.83	1.89	10.72	739.18	740.92	--	--	--	--	NA
43-163	749.65	0.92	9.11	0.75	9.86	739.79	740.48	8.80	1.55	10.35	739.30	740.73	--	--	--	--	NA
43-164	749.59	0.92	9.00	0.79	9.79	739.80	740.53	8.15	0.40	8.55	741.04	741.41	--	--	--	--	NA
43-165	749.41	0.92	8.88	2.61	11.49	737.92	740.32	7.40	2.08	9.48	739.93	741.84	--	--	--	--	NA
43-166	747.97	--	NA	0.00	7.64	740.33	NA	NA	0.00	6.83	741.14	NA	--	--	--	--	NA
43-167	748.43	--	NA	0.00	8.29	740.14	NA	NA	0.00	7.69	740.74	NA	--	--	--	--	NA
43-168	750.10	--	NA	0.00	9.98	740.12	NA	NA	0.00	9.44	740.66	NA	--	--	--	--	NA
43-169	750.32	--	NA	0.00	9.94	740.38	NA	NA	0.00	9.80	740.52	NA	--	--	--	--	NA
43-220	753.95	--	NA	0.00	12.46	741.49	NA	NA	0.00	11.86	742.09	NA	--	--	--	--	NA
43-242	753.64	--	NA	0.00	13.00	740.64	NA	NA	0.00	12.38	741.26	NA	--	--	--	--	NA
55-1	753.43	--	NA	0.00	11.90	741.53	NA	NA	0.00	11.77	741.66	NA	--	--	--	--	NA
55-2	753.06	--	NA	0.00	11.48	741.58	NA	NA	0.00	10.94	742.12	NA	--	--	--	--	NA
55-3	753.52	--	NA	0.00	11.84	741.68	NA	NA	0.00	11.24	742.28	NA	--	--	--	--	NA
55-4	753.59	--	NA	0.00	11.04	742.55	NA	NA	0.00	10.49	743.10	NA	--	--	--	--	NA
55-5	753.94	--	NA	0.00	12.53	741.41	NA	NA	0.00	12.44	741.50	NA	--	--	--	--	NA
70-100	742.36	--	NA	0.00	6.35	736.01	NA	NA	0.00	5.66	736.70	NA	--	--	--	--	NA
70-101	742.68	0.91	4.74	0.02	4.76	737.92	737.94	3.20	0.36	3.56	739.12	739.45	--	--	--	--	NA
70-102	742.75	--	NA	0.00	5.10	737.65	NA	--	--	--	--	NA	--	--	--	--	NA
70-102R	742.56	0.91	--	--	--	--	--	3.29	0.01	3.30	739.26	739.27	--	--	--	--	NA
70-103	743.78	0.91	5.54	0.03	5.57	738.21	738.24	3.76	0.56	4.32	739.46	739.97	--	--	--	--	NA
70-104	743.51	--	NA	0.00	5.93	737.58	NA	NA	0.00	3.32	740.19	NA	--	--	--	--	NA
70-105	743.58	--	NA	0.00	6.98	736.60	NA	NA	0.00	4.54	739.04	NA	--	--	--	--	NA
70-106	743.60	--	NA	0.00	6.68	736.92	NA	NA	0.00	4.20	739.40	NA	--	--	--	--	NA
70-107	742.58	--	NA	0.00	7.82	734.76	NA	--		--	--	NA	--	--	--	--	NA
70-107R	742.80	0.91	--	--	--	--	--	3.69	6.35	10.04	732.76	738.54	--	--	--	--	NA
70-108	744.06	0.91	5.84	0.78	6.62	737.44	738.15	--	--	--	--	NA	--	--	--	--	NA
70-108R	743.64	--	--	--	--	--	--	NA	0.00	4.12	739.52	NA	--	--	--	--	NA
70-109	741.60	--	NA	0.00	4.07	737.53	NA	NA	0.00	3.18	738.42	NA	--	--	--	--	NA
70-160	739.41	--	NA	0.00	10.35	729.06	NA	--	--	--	--	NA	--	--	--	--	NA
70-162	743.45	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
70-163	742.59	--	NA	0.00	4.63	737.96	NA	NA	0.00	3.94	738.65	NA	--	--	--	--	NA

Table X-1

Groundwater Level Data:
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	March 17-18, 2003					December 2004					April 15, 2005				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
70-164	742.37	--	--	--	--	--	--	NA	0.00	3.97	738.40	NA	--	--	--	--	NA
70-165	741.26	--	NA	0.00	4.71	736.55	NA	NA	0.00	3.39	737.87	NA	--	--	--	--	NA
84-1	727.09	--	NA	0.00	9.84	717.25	NA	--	--	--	--	NA	--	--	--	--	NA
84-3	727.07	--	NA	0.00	9.92	717.15	NA	--	--	--	--	NA	--	--	--	--	NA
84-4	727.25	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
84-5	727.87	--	NA	0.00	9.45	718.42	NA	--	--	--	--	NA	--	--	--	--	NA
84-6	726.49	--	NA	0.00	9.61	716.88	NA	--	--	--	--	NA	--	--	--	--	NA
84-6R	720.32	--	NA	0.00	11.21	709.11	NA	--	--	--	--	NA	--	--	--	--	NA
84-6R2	727.02	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
84-6R2-D	726.80	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
84-7	727.53	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
84-7-D	727.42	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
86-1	743.20	--	NA	0.00	8.95	734.25	NA	NA	0.00	8.69	734.51	NA	--	--	--	--	NA
86-100	740.05	--	--	--	--	--	--	NA	0.00	5.33	734.72	NA	--	--	--	--	NA
86-2	742.93	--	NA	0.00	9.42	733.51	NA	NA	0.00	9.41	733.52	NA	--	--	--	--	NA
86-3	746.31	--	NA	0.00	15.97	730.34	NA	NA	0.00	13.50	732.81	NA	--	--	--	--	NA
87-FP1	715.79	--	NA	0.00	2.68	713.11	NA	NA	0.00	1.78	714.01	NA	--	--	--	--	NA
87-FP2	742.24	--	NA	0.00	13.65	728.59	NA	NA	0.00	12.23	730.01	NA	--	--	--	--	NA
87-FP3	739.07	--	NA	0.00	11.20	727.87	NA	NA	0.00	9.78	729.29	NA	--	--	--	--	NA
87-FP4	742.11	--	NA	0.00	21.32	720.79	NA	NA	0.00	20.71	721.40	NA	--	--	--	--	NA
87-FP5	741.01	--	NA	0.00	12.09	728.92	NA	NA	0.00	10.65	730.36	NA	--	--	--	--	NA
87-FPD2	742.05	--	NA	0.00	29.03	713.02	NA	NA	0.00	28.10	713.95	NA	--	--	--	--	NA
87-FPD3	742.05	--	NA	0.00	25.96	716.09	NA	NA	0.00	25.03	717.02	NA	--	--	--	--	NA
88-1	741.09	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
88-2	741.37	--	NA	0.00	6.97	734.40	NA	--	--	--	--	NA	--	--	--	--	NA
88-4	741.37	--	NA	0.00	7.38	733.99	NA	NA	0.00	6.34	735.03	NA	--	--	--	--	NA
88-5	742.01	--	NA	0.00	6.97	735.04	NA	NA	0.00	6.60	735.41	NA	--	--	--	--	NA
88-6	741.60	--	NA	0.00	7.72	733.88	NA	NA	0.00	6.69	734.91	NA	--	--	--	--	NA
88-7	742.20	--	NA	0.00	6.22	735.98	NA	NA	0.00	4.69	737.51	NA	--	--	--	--	NA
88-8	741.53	--	NA	0.00	8.23	733.30	NA	NA	0.00	7.23	734.30	NA	--	--	--	--	NA
88-9	741.86	--	NA	0.00	7.44	734.42	NA	NA	0.00	6.18	735.68	NA	--	--	--	--	NA
94-100	720.36	--	NA	0.00	8.08	712.28	NA	NA	0.00	7.52	712.84	NA	--	--	--	--	NA
ACSP-B2AR	738.66	--	NA	0.00	27.66	711.00	NA	NA	0.00	26.52	712.14	NA	--	--	--	--	NA
BD01-01	744.29	--	--	--	Dry	Dry	--	NA	0.00	21.20	723.09	NA	--	--	--	--	NA
BD01-02R	736.42	--	NA	0.00	16.85	719.57	NA	NA	0.00	15.76	720.66	NA	--	--	--	--	NA
BD01-03	733.49	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
BD01-04	736.02	--	--	--	--	--	--	NA	0.00	16.64	719.38	NA	--	--	--	--	NA
GM-1	724.64	--	NA	0.00	12.32	712.32	NA	NA	0.00	11.58	713.06	NA	--	--	--	--	NA
GM-10	725.79	--	NA	0.00	13.44	712.35	NA	NA	0.00	12.88	712.91	NA	--	--	--	--	NA
GM-11	730.31	--	NA	0.00	15.94	--	NA	NA	0.00	15.19	715.12	NA	--	--	--	--	NA
GM-12	738.62	--	NA	0.00	24.01	714.61	NA	NA	0.00	21.89	716.73	NA	--	--	--	--	NA
GM-2	725.40	--	NA	0.00	12.96	712.44	NA	NA	0.00	11.38	714.02	NA	--	--	--	--	NA
GM-3	725.54	--	NA	0.00	13.12	712.42	NA	NA	0.00	12.45	713.09	NA	--	--	--	--	NA
GM-4	738.12	--	NA	0.00	25.22	712.90	NA	NA	0.00	24.55	713.57	NA	--	--	--	--	NA
GM-5	737.05	--	NA	0.00	24.14	712.91	NA	NA	0.00	23.47	713.58	NA	--	--	--	--	NA
GM-6	734.96	--	NA	0.00	22.15	712.81	NA	NA	0.00	21.46	713.50	NA	--	--	--	--	NA
GM-7	739.81	--	NA	0.00	26.54	713.27	NA	NA	0.00	25.63	714.18	NA	--	--	--	--	NA
GM-8	738.71	--	NA	0.00	23.92	714.79	NA	NA	0.00	21.92	716.79	NA	--	--	--	--	NA
GM-9	724.39	--	NA	0.00	12.03	712.36	NA	NA	0.00	11.31	713.08	NA	--	--	--	--	NA
MW-00-FP6	740.73	--	NA	0.00	16.65	724.08	NA	NA	0.00	16.61	724.12	NA	--	--	--	--	NA
MW-00-FP7	740.73	--	NA	0.00	14.97	725.76	NA	NA	0.00	15.35	725.38	NA	--	--	--	--	NA
MW-00-FP8	741.43	--	NA	0.00	16.75	724.68	NA	NA	0.00	16.73	724.70	NA	--	--	--	--	NA
MW-07-01	732.42	--	--	--	--	--	--	NA	0.00	15.25	717.17	NA	--	--	--	--	NA
MW-07-02	736.75	--	--	--	--	--	--	NA	0.00	6.42	730.33	NA	--	--	--	--	NA
MW-16	713.53	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
MW-17	714.54	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
MW-18	714.33	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA

Table X-1

Groundwater Level Data:
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	March 17-18, 2003					December 2004					April 15, 2005				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
MW-19	712.00	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
MW-20	714.02	--	NA	0.00	4.15	--	NA	--	--	--	--	NA	--	--	--	--	NA
MW-21	716.51	--	NA	0.00	2.50	--	NA	--	--	--	--	NA	--	--	--	--	NA
MW-22	719.37	--	NA	0.00	7.24	--	NA	--	--	--	--	NA	--	--	--	--	NA
MW-23	719.89	--	NA	0.00	6.32	--	NA	--	--	--	--	NA	--	--	--	--	NA
MW-24	724.81	--	NA	0.00	5.41	--	NA	--	--	--	--	NA	--	--	--	--	NA
MW-25	722.38	--	NA	0.00	8.88	--	NA	--	--	--	--	NA	--	--	--	--	NA
MW-26	722.18	--	NA	0.00	5.72	--	NA	--	--	--	--	NA	--	--	--	--	NA
OW-3D	736.78	--	--	--	Dry	Dry	--	--	--	Dry	--	NA	--	--	--	--	NA
OW-3S	738.34	--	--	--	Dry	Dry	--	NA	0.00	10.44	727.90	NA	--	--	--	--	NA
OW-5	725.32	--	NA	0.00	11.76	713.56	NA	NA	0.00	8.79	716.53	NA	--	--	--	--	NA
P-1	751.11	0.92	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
P-2	751.30	0.92	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-02-05	738.88	--	NA	0.00	7.04	731.84	NA	NA	0.00	1.96	736.92	NA	NA	0.00	4.01	734.87	NA
RFI-02-07	735.06	--	NA	0.00	6.80	728.26	NA	--	--	--	--	NA	--	--	--	--	NA
RFI-02-08	736.06	--	NA	0.00	9.05	727.01	NA	--	--	--	--	NA	--	--	--	--	NA
RFI-02-08R	736.07	--	--	--	--	--	--	NA	0.00	5.90	730.17	NA	--	--	--	--	NA
RFI-02-12	738.51	--	NA	0.00	7.47	731.04	NA	NA	0.00	5.07	733.44	NA	NA	0.00	5.84	732.67	NA
RFI-02-13	731.00	--	NA	0.00	3.42	727.58	NA	NA	0.00	0.90	730.10	NA	NA	0.00	2.15	728.85	NA
RFI-02-14	738.73	0.95	--	--	--	--	--	--	--	--	--	NA	3.35	0.70	4.05	734.68	735.35
RFI-02-15	738.74	--	--	--	--	--	--	--	--	--	--	NA	NA	0.00	5.84	732.90	NA
RFI-02-16	738.66	--	--	--	--	--	--	--	--	--	--	NA	NA	0.00	6.10	732.56	NA
RFI-02-17	738.67	--	--	--	--	--	--	--	--	--	--	NA	NA	0.00	5.83	732.84	NA
RFI-02-18	738.69	--	--	--	--	--	--	--	--	--	--	NA	NA	0.00	5.61	733.08	NA
RFI-02-19	738.54	--	--	--	--	--	--	--	--	--	--	NA	NA	0.00	5.88	732.66	NA
RFI-02-20	738.30	--	--	--	--	--	--	--	--	--	--	NA	NA	0.00	4.45	733.85	NA
RFI-02-21	738.50	--	--	--	--	--	--	--	--	--	--	NA	NA	0.00	4.55	733.95	NA
RFI-02-22	729.77	--	--	--	--	--	--	--	--	--	--	NA	NA	0.00	0.75	729.02	NA
RFI-02-23	738.57	--	--	--	--	--	--	--	--	--	--	NA	NA	0.00	5.53	733.04	NA
RFI-02-24	729.88	--	--	--	--	--	--	--	--	--	--	NA	NA	0.00	2.32	727.56	NA
RFI-03-01	748.38	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-03-02	742.35	--	NA	0.00	7.79	734.56	NA	NA	0.00	5.88	736.47	NA	--	--	--	--	NA
RFI-03-03	742.01	--	NA	0.00	2.65	739.36	NA	NA	0.00	1.60	740.41	NA	--	--	--	--	NA
RFI-03-04	746.67	--	NA	0.00	8.26	738.41	NA	NA	0.00	5.81	740.86	NA	--	--	--	--	NA
RFI-03-15R	747.54	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-01	750.38	--	NA	0.00	10.19	740.19	NA	NA	0.00	9.79	740.59	NA	--	--	--	--	NA
RFI-05-02	754.10	--	NA	0.00	13.76	740.34	NA	NA	0.00	13.37	740.73	NA	--	--	--	--	NA
RFI-05-03	752.43	--	NA	0.00	10.92	741.51	NA	NA	0.00	10.63	741.80	NA	--	--	--	--	NA
RFI-05-04	754.32	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-05	754.34	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-06	752.13	--	NA	0.00	11.99	740.14	NA	NA	0.00	11.71	740.42	NA	--	--	--	--	NA
RFI-05-07	754.38	--	--	--	--	--	--	NA	0.00	11.86	742.52	NA	--	--	--	--	NA
RFI-05-08	755.77	--	--	--	--	--	--	NA	0.00	13.42	742.35	NA	--	--	--	--	NA
RFI-05-08R	755.78	--	--	--	Dry	Dry	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-09	751.65	--	NA	0.00	10.77	740.88	NA	NA	0.00	10.07	741.58	NA	--	--	--	--	NA
RFI-05-10	754.21	--	NA	0.00	13.65	740.56	NA	NA	0.00	13.30	740.91	NA	--	--	--	--	NA
RFI-05-11	754.42	0.92	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-12	754.03	--	NA	0.00	13.39	740.64	NA	--	--	12.92	741.11	NA	--	--	--	--	NA
RFI-05-13	754.16	0.92	13.22	3.17	16.39	737.77	740.69	12.72	3.37	16.09	738.07	741.17	--	--	--	--	NA
RFI-05-14	754.12	0.92	13.38	2.81	16.19	737.93	740.52	12.70	1.87	14.57	739.55	741.27	--	--	--	--	NA
RFI-05-19D	749.31	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-19DR	749.48	--	NA	0.00	14.28	735.20	NA	NA	0.00	13.31	736.17	NA	--	--	--	--	NA
RFI-05-19S	749.48	--	NA	0.00	9.28	740.20	NA	NA	0.00	8.55	740.93	NA	--	--	--	--	NA
RFI-05-20	750.41	--	NA	0.00	9.92	740.49	NA	NA	0.00	9.41	741.00	NA	--	--	--	--	NA
RFI-05-21	748.73	--	NA	0.00	8.35	740.38	NA	NA	0.00	7.43	741.30	NA	--	--	--	--	NA
RFI-05-30	748.55	--	--	--	--	--	--	NA	0.00	7.49	741.06	NA	--	--	--	--	NA
RFI-05-East	753.59	0.92	--	--	--	--	--	12.55	3.11	15.66	737.93	740.79	--	--	--	--	NA

Table X-1

Groundwater Level Data:
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	March 17-18, 2003					December 2004					April 15, 2005				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
RFI-05-North	753.55	0.92	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-South	754.08	--	--	--	--	--	--	NA	0.00	13.50	740.58	NA	--	--	--	--	NA
RFI-07-01	730.56	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-07-01R	736.11	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-07-01R2	736.00	--	--	--	--	--	--	NA	0.00	13.81	722.19	NA	--	--	--	--	NA
RFI-07-03	726.74	--	NA	0.00	0.72	726.02	NA	NA	0.00	1.33	725.41	NA	--	--	--	--	NA
RFI-07-08	728.12	--	NA	0.00	13.99	714.13	NA	NA	0.00	12.66	715.46	NA	--	--	--	--	NA
RFI-09-01	725.15	--	NA	0.00	8.30	716.85	NA	NA	0.00	5.77	719.38	NA	--	--	--	--	NA
RFI-09-01R	--	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-09-04	725.92	--	--	--	Dry	Dry	--	--	--	--	--	NA	--	--	--	--	NA
RFI-09-04R	725.95	--	NA	0.00	15.76	710.19	NA	NA	0.00	15.18	710.77	NA	--	--	--	--	NA
RFI-09-06	727.66	--	NA	0.00	8.36	719.30	NA	NA	0.00	4.41	723.25	NA	--	--	--	--	NA
RFI-09-07	727.51	0.75	8.24	0.01	8.25	719.26	719.27	NA	0.00	7.53	719.98	NA	--	--	--	--	NA
RFI-09-08	728.45	--	NA	0.00	10.09	718.36	NA	NA	0.00	7.39	721.06	NA	--	--	--	--	NA
RFI-09-08D	728.10	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-09-09	728.20	--	NA	0.00	8.33	719.87	NA	NA	0.00	5.51	722.69	NA	--	--	--	--	NA
RFI-09-09D	728.30	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-09-10	726.45	--	NA	0.00	6.71	719.74	NA	NA	0.00	2.55	723.90	NA	--	--	--	--	NA
RFI-09-11	728.85	--	NA	0.00	8.68	720.17	NA	NA	0.00	6.67	722.18	NA	--	--	--	--	NA
RFI-09-11D	728.50	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-09-12	731.39	--	NA	0.00	5.57	725.82	NA	NA	0.00	3.11	728.28	NA	--	--	--	--	NA
RFI-09-13	725.09	--	NA	0.00	8.48	716.61	NA	NA	0.00	6.16	718.93	NA	--	--	--	--	NA
RFI-09-14	724.44	--	NA	0.00	7.32	717.12	NA	NA	0.00	3.58	720.86	NA	--	--	--	--	NA
RFI-09-32	723.85	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-09-36R	725.90	--	NA	0.00	9.51	716.39	NA	NA	0.00	7.23	718.67	NA	--	--	--	--	NA
RFI-09-40R	729.76	0.75	9.33	0.33	9.66	720.10	720.35	NA	0.00	7.21	722.55	NA	--	--	--	--	NA
RFI-09-44	728.22	--	NA	0.00	9.25	--	NA	NA	0.00	5.25	722.97	NA	--	--	--	--	NA
RFI-09-45	730.17	--	NA	0.00	9.18	720.99	NA	NA	0.00	2.69	727.48	NA	--	--	--	--	NA
RFI-09-45R	--	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-09-46	723.07	--	NA	0.00	9.57	713.50	NA	NA	0.00	8.64	714.43	NA	--	--	--	--	NA
RFI-09-47	729.64	0.75	8.92	0.47	9.39	720.25	720.60	NA	0.00	6.95	722.69	NA	--	--	--	--	NA
RFI-09-49	726.56	--	--	--	Dry	Dry	--	--	--	--	--	NA	--	--	--	--	NA
RFI-09-49R	726.43	--	--	--	--	--	--	NA	0.00	15.11	711.32	NA	--	--	--	--	NA
RFI-09-52	--	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-09-53	725.48	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-09-54S	728.05	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-09-54D	728.01	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-09-55S	728.02	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-09-55D	728.10	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-09-56	726.93	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-09-57	724.90	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-09-58	723.38	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-10-01	749.11	--	NA	0.00	8.49	740.62	NA	NA	0.00	7.34	741.77	NA	--	--	--	--	NA
RFI-10-02	750.54	--	NA	0.00	9.79	740.75	NA	NA	0.00	8.12	742.42	NA	--	--	--	--	NA
RFI-10-03	751.79	--	--	--	--	--	--	NA	0.00	10.25	741.54	NA	--	--	--	--	NA
RFI-10-04	750.64	--	NA	0.00	10.32	740.32	NA	NA	0.00	8.91	741.73	NA	--	--	--	--	NA
RFI-10-05	751.57	--	NA	0.00	11.81	739.76	NA	NA	0.00	10.41	741.16	NA	--	--	--	--	NA
RFI-10-06	752.17	--	NA	0.00	11.69	740.48	NA	--	--	--	--	NA	--	--	--	--	NA
RFI-10-07	751.33	--	NA	0.00	10.51	740.82	NA	NA	0.00	9.41	741.92	NA	--	--	--	--	NA
RFI-10-08	750.79	--	NA	0.00	9.85	740.94	NA	NA	0.00	8.83	741.96	NA	--	--	--	--	NA
RFI-10-11	746.14	--	NA	0.00	6.56	739.58	NA	NA	0.00	5.12	741.02	NA	--	--	--	--	NA
RFI-10-12	750.35	--	--	--	--	--	--	NA	0.00	7.64	742.71	NA	--	--	--	--	NA
RFI-10-15	751.25	--	NA	0.00	11.22	740.03	NA	NA	0.00	9.70	741.55	NA	--	--	--	--	NA
RFI-10-24	751.53	--	NA	0.00	12.43	--	NA	NA	0.00	11.21	740.32	NA	--	--	--	--	NA
RFI-10-25	753.10	--	NA	0.00	15.55	--	NA	NA	0.00	12.68	740.42	NA	--	--	--	--	NA
RFI-10-26	749.32	--	NA	0.00	9.35	739.97	NA	NA	0.00	7.84	741.48	NA	--	--	--	--	NA
RFI-10-28	752.58	--	NA	0.00	14.77	737.81	NA	NA	0.00	13.55	739.03	NA	--	--	--	--	NA

Table X-1

Groundwater Level Data:
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	March 17-18, 2003					December 2004					April 15, 2005				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
RFI-10-29	752.40	--	NA	0.00	15.31	737.09	NA	NA	0.00	13.68	738.72	NA	--	--	--	--	NA
RFI-10-30	745.56	--	--	--	--	--	--	NA	0.00	4.02	741.54	NA	--	--	--	--	NA
RFI-10-31	746.66	--	--	--	--	--	--	NA	0.00	4.41	742.25	NA	--	--	--	--	NA
RFI-10-32	754.61	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-10-33	755.30	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-10-34	755.77	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-10-35	755.69	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-10-36	752.82	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-12-01R	741.98	0.93	12.25	0.26	12.51	729.47	729.71	4.81	0.03	4.84	737.14	737.17	--	--	--	--	NA
RFI-12-02	742.41	0.93	8.90	3.63	12.53	729.88	733.26	--	--	--	--	NA	--	--	--	--	NA
RFI-12-02R	742.10	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-12-07R	742.43	--	NA	0.00	8.96	733.47	NA	--	--	--	--	NA	--	--	--	--	NA
RFI-12-07R2	741.95	--	--	--	--	--	--	NA	0.00	3.65	738.30	NA	--	--	--	--	NA
RFI-12-08 (Replaced)	742.08	0.93	15.27	0.52	15.79	726.29	726.77	6.51	0.04	6.55	735.53	735.57	--	--	--	--	NA
RFI-12-09	742.68	0.93	6.15	0.89	7.04	735.64	736.47	--	--	--	--	NA	--	--	--	--	NA
RFI-12-09R	741.97	0.93	--	--	--	--	--	4.24	0.05	4.29	737.68	737.73	--	--	--	--	NA
RFI-12-11D	742.09	0.93	13.32	5.68	19.00	723.09	728.37	8.61	1.86	10.47	731.62	733.35	--	--	--	--	NA
RFI-12-11S	742.17	--	NA	0.00	6.95	735.22	NA	NA	0.00	4.39	737.78	NA	--	--	--	--	NA
RFI-12-14	742.15	--	14.35	0.02	14.37	727.78	#VALUE!	NA	0.00	4.81	737.34	NA	--	--	--	--	NA
RFI-12-14R	742.20	--	--	--	--	--	--	NA	0.00	4.92	737.28	NA	--	--	--	--	NA
RFI-12-15	742.13	--	NA	0.00	10.15	731.98	NA	NA	0.00	6.08	736.05	NA	--	--	--	--	NA
RFI-12-21	741.50	--	--	--	--	--	--	NA	0.00	4.98	736.52	NA	--	--	--	--	NA
RFI-12-22	741.99	0.93	10.55	0.95	11.50	730.49	731.37	--	--	--	--	NA	--	--	--	--	NA
RFI-12-22R	742.07	0.93	--	--	--	--	--	NA	0.00	4.10	737.97	NA	--	--	--	--	NA
RFI-12-23	742.21	0.93	15.25	0.16	15.41	726.80	726.95	8.78	2.28	11.06	731.15	733.27	--	--	--	--	NA
RFI-12-24	742.12	--	--	--	--	--	--	NA	0.00	3.71	738.41	NA	--	--	--	--	NA
RFI-12-25	741.85	--	--	--	--	--	--	NA	0.00	4.38	737.47	NA	--	--	--	--	NA
RFI-12-26	742.04	0.93	--	--	--	--	--	4.82	0.11	4.93	737.11	737.21	--	--	--	--	NA
RFI-12-28	742.63	0.93	--	--	--	--	--	9.61	3.32	12.93	729.70	732.79	--	--	--	--	NA
RFI-12-32	738.61	--	--	--	--	--	--	NA	0.00	2.41	736.20	NA	--	--	--	--	NA
RFI-12-33	743.66	--	--	--	--	--	--	NA	0.00	5.22	738.44	NA	--	--	--	--	NA
RFI-12-34	744.02	--	--	--	--	--	--	NA	0.00	5.75	738.27	NA	--	--	--	--	NA
RFI-12-35	743.83	0.93	--	--	--	--	--	5.16	0.09	5.25	738.58	738.66	--	--	--	--	NA
RFI-12-36	743.89	0.93	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-12-38	742.39	0.93	--	--	--	--	--	5.04	0.56	5.60	736.79	737.31	--	--	--	--	NA
RFI-12-40	741.47	--	--	--	--	--	--	NA	0.00	5.17	736.30	NA	--	--	--	--	NA
RFI-12-41	741.56	--	--	--	--	--	--	NA	0.00	3.76	737.80	NA	--	--	--	--	NA
RFI-16-01	736.10	--	NA	0.00	9.04	727.06	NA	NA	0.00	7.48	728.62	NA	--	--	--	--	NA
RFI-16-04	732.27	--	NA	0.00	9.02	723.25	NA	--	--	--	--	NA	--	--	--	--	NA
RFI-16-04R	732.12	--	--	--	--	--	--	NA	0.00	7.59	724.53	NA	--	--	--	--	NA
RFI-16-07	733.26	--	NA	0.00	7.35	725.91	NA	NA	0.00	5.94	727.32	NA	--	--	--	--	NA
RFI-16-08	733.24	0.86	--	--	--	--	--	5.92	0.49	6.41	726.83	727.25	--	--	--	--	NA
RFI-16-09	733.39	--	NA	0.00	7.89	725.50	NA	NA	0.00	5.50	727.89	NA	--	--	--	--	NA
RFI-16-10	736.09	0.86	10.08	0.07	10.15	725.94	726.00	8.05	0.40	8.45	727.64	727.98	--	--	--	--	NA
RFI-16-11	736.49	--	NA	0.00	10.30	726.19	NA	NA	0.00	8.75	727.74	NA	--	--	--	--	NA
RFI-16-12	735.58	--	NA	0.00	9.09	726.49	NA	--	--	--	--	NA	--	--	--	--	NA
RFI-16-12R	735.56	--	--	--	--	--	--	NA	0.00	7.52	728.04	NA	--	--	--	--	NA
RFI-16-20	732.35	--	NA	0.00	8.43	723.92	NA	NA	0.00	6.76	725.59	NA	--	--	--	--	NA
RFI-16-24	736.39	--	NA	0.00	10.65	725.74	NA	NA	0.00	8.36	728.03	NA	--	--	--	--	NA
RFI-16-25	736.14	--	NA	0.00	9.38	726.76	NA	NA	0.00	8.14	728.00	NA	--	--	--	--	NA
RFI-17-02	720.27	--	NA	0.00	6.35	713.92	NA	NA	0.00	4.81	715.46	NA	--	--	--	--	NA
RFI-17-02D	720.36	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-21-04	746.10	--	NA	0.00	14.45	731.65	NA	NA	0.00	13.08	733.02	NA	--	--	--	--	NA
RFI-23-01	742.19	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-23-01R	741.73	--	NA	0.00	9.57	732.16	NA	NA	0.00	3.54	738.19	NA	--	--	--	--	NA
RFI-23-02	740.37	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-23-02R	740.08	--	NA	0.00	6.58	733.50	NA	NA	0.00	3.59	736.49	NA	--	--	--	--	NA

Table X-1

Groundwater Level Data:
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	March 17-18, 2003					December 2004					April 15, 2005				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
RFI-36-01	756.63	--	NA	0.00	19.35	737.28	NA	NA	0.00	18.50	738.13	NA	--	--	--	--	NA
RFI-36-02	751.96	--	NA	0.00	15.31	736.65	NA	NA	0.00	14.55	737.41	NA	--	--	--	--	NA
RFI-36-03	751.31	--	NA	0.00	14.11	737.20	NA	NA	0.00	13.03	738.28	NA	--	--	--	--	NA
RFI-36-04	756.14	0.83	NA	0.00	18.73	737.41	NA	NA	0.00	17.91	738.23	NA	--	--	--	--	NA
RFI-36-05	755.07	0.83	NA	0.00	17.85	737.22	NA	NA	0.00	16.86	738.21	NA	--	--	--	--	NA
RFI-36-06	755.29	0.83	17.58	1.48	19.06	736.23	737.46	16.60	1.31	17.91	737.38	738.47	--	--	--	--	NA
RFI-36-07	753.94	0.83	14.96	1.62	16.58	737.36	738.70	14.83	1.42	16.25	737.69	738.87	--	--	--	--	NA
RFI-36-08	749.29	0.83	NA	0.00	7.45	741.84	NA	8.97	0.05	9.02	740.27	740.31	--	--	--	--	NA
RFI-36-09	750.78	--	NA	0.00	11.13	739.65	NA	NA	0.00	9.83	740.95	NA	--	--	--	--	NA
RFI-36-10	750.21	--	--	--	--	--	--	NA	0.00	9.05	741.16	NA	--	--	--	--	NA
RFI-36-11	752.89	0.83	NA	0.00	12.91	739.98	NA	NA	0.00	12.25	740.64	NA	--	--	--	--	NA
RFI-36-12	753.52	0.83	NA	0.00	12.32	741.20	NA	NA	0.00	11.43	742.09	NA	--	--	--	--	NA
RFI-36-14	750.00	--	NA	0.00	11.32	738.68	NA	NA	0.00	8.10	741.90	NA	--	--	--	--	NA
RFI-36-15	754.47	0.83	14.56	--	Dry	--	--	13.85	4.75	18.60	735.87	739.81	--	--	--	--	NA
RFI-36-16	754.87	0.83	17.66	3.29	20.95	733.92	736.65	15.30	5.74	21.04	733.83	738.59	--	--	--	--	NA
RFI-36-17	753.93	--	NA	0.00	17.37	736.56	NA	NA	0.00	16.64	737.29	NA	--	--	--	--	NA
RFI-36-18	753.12	--	NA	0.00	16.52	736.60	NA	NA	0.00	15.57	737.55	NA	--	--	--	--	NA
RFI-36-19	753.31	--	NA	0.00	16.48	736.83	NA	NA	0.00	15.20	738.11	NA	--	--	--	--	NA
RFI-36-20	757.01	--	NA	0.00	19.97	737.04	NA	NA	0.00	18.59	738.42	NA	--	--	--	--	NA
RFI-36-21	754.72	0.83	17.39	0.15	17.54	737.18	737.30	14.15	3.44	17.59	737.13	739.99	--	--	--	--	NA
RFI-36-22	754.28	0.83	13.98	2.77	16.75	737.53	739.83	13.60	3.20	16.80	737.48	740.14	--	--	--	--	NA
RFI-36-23	754.09	0.83	14.90	0.05	14.95	739.14	739.18	14.00	0.10	14.10	739.99	740.07	--	--	--	--	NA
RFI-36-24	753.92	0.83	NA	0.00	13.98	739.94	NA	--	--	--	--	NA	--	--	--	--	NA
RFI-36-25R	754.67	--	NA	0.00	15.74	738.93	NA	NA	0.00	14.10	740.57	NA	--	--	--	--	NA
RFI-36-27	755.46	0.83	17.97	1.22	19.19	736.27	737.28	17.02	1.23	18.25	737.21	738.23	--	--	--	--	NA
RFI-36-29	753.86	0.83	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-36-29R	753.72	0.83	NA	0.00	15.92	737.80	NA	NA	0.00	14.64	739.08	NA	--	--	--	--	NA
RFI-36-31	753.51	0.83	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-36-32	756.28	0.83	NA	0.00	18.88	737.40	NA	NA	0.00	18.14	738.14	NA	--	--	--	--	NA
RFI-36-35	750.05	--	--	--	--	--	--	NA	0.00	12.65	737.40	NA	--	--	--	--	NA
RFI-36-36	750.19	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-36-37	757.15	--	NA	0.00	20.12	737.03	NA	--	--	--	--	NA	--	--	--	--	NA
RFI-36-43	753.26	0.83	14.24	0.19	14.43	738.83	738.99	NA	0.00	13.01	740.25	NA	--	--	--	--	NA
RFI-36-44	752.45	--	NA	0.00	15.96	736.49	NA	NA	0.00	14.71	737.74	NA	--	--	--	--	NA
RFI-36-45	752.83	--	NA	0.00	15.64	737.19	NA	NA	0.00	15.23	737.60	NA	--	--	--	--	NA
RFI-36-46	750.13	--	NA	0.00	13.37	736.76	NA	NA	0.00	12.64	737.49	NA	--	--	--	--	NA
RFI-36-47	749.26	--	NA	0.00	15.66	733.60	NA	NA	0.00	15.29	733.97	NA	--	--	--	--	NA
RFI-36-48	757.71	--	NA	0.00	21.93	735.78	NA	NA	0.00	21.19	736.52	NA	--	--	--	--	NA
RFI-36-49	755.71	0.83	--	--	--	--	--	17.79	0.54	18.33	737.38	737.83	--	--	--	--	NA
RFI-36-51	749.23	--	--	--	--	--	--	NA	0.00	11.65	737.58	NA	--	--	--	--	NA
RFI-36-53	753.25	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-36-54	756.98	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-36-55	750.49	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-36-56	749.97	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-38-04	751.58	--	NA	0.00	18.75	732.83	NA	NA	0.00	19.39	732.19	NA	--	--	--	--	NA
RFI-38-05	750.79	--	NA	0.00	17.41	733.38	NA	NA	0.00	17.88	732.91	NA	--	--	--	--	NA
RFI-38-06	749.43	--	NA	0.00	14.67	734.76	NA	NA	0.00	14.69	734.74	NA	--	--	--	--	NA
RFI-40-01R	--	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-40-01R2	734.05	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-40-02	735.35	0.92	10.19	0.05	10.24	725.11	725.16	5.90	3.44	9.34	726.01	729.17	--	--	--	--	NA
RFI-40-03	735.33	--	NA	0.00	9.15	726.18	NA	--	--	--	--	NA	--	--	--	--	NA
RFI-40-03R	735.33	--	--	--	--	--	--	NA	0.00	7.53	727.80	NA	--	--	--	--	NA
RFI-40-04	728.15	--	NA	0.00	13.38	714.77	NA	NA	0.00	11.14	717.01	NA	--	--	--	--	NA
RFI-40-07	729.35	0.92	NA	0.00	5.39	723.96	NA	NA	0.00	1.40	727.95	NA	14.61	0.01	14.62	714.73	714.74
RFI-40-09	731.85	--	NA	0.00	14.53	717.32	NA	NA	0.00	11.02	720.83	NA	--	--	--	--	NA
RFI-40-10R	735.17	--	NA	0.00	9.30	725.87	NA	NA	0.00	6.97	728.20	NA	--	--	--	--	NA
RFI-40-11	730.82	--	NA	0.00	5.97	724.85	NA	NA	0.00	2.74	728.08	NA	--	--	--	--	NA

Table X-1

Groundwater Level Data:
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	March 17-18, 2003					December 2004					April 15, 2005				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
RFI-40-12R	743.12	--	--	--	--	--	--	NA	0.00	11.16	731.96	NA	--	--	--	--	NA
RFI-40-13	731.92	--	--	--	--	--	--	NA	0.00	9.68	722.24	NA	NA	0.00	10.13	721.79	NA
RFI-40-14R	731.93	0.92	--	--	--	--	--	10.10	2.33	12.43	719.50	721.64	NA	0.00	4.25	727.68	NA
RFI-40-16	735.17	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-40-17	734.03	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-40-18	731.99	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-40-20	738.47	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-40-25	734.17	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-40-26	738.37	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-40-27	731.71	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-44-04	731.89	--	NA	0.00	3.46	728.43	NA	--	--	--	--	NA	--	--	--	--	NA
RFI-44-05	731.97	--	NA	0.00	8.52	723.45	NA	NA	0.00	7.79	724.18	NA	--	--	--	--	NA
RFI-44-06R	731.52	--	NA	0.00	12.48	--	NA	--	--	--	--	NA	--	--	--	--	NA
RFI-55-01	751.85	--	NA	0.00	9.16	742.69	NA	NA	0.00	8.66	743.19	NA	--	--	--	--	NA
RFI-55-02	752.88	--	NA	0.00	11.04	741.84	NA	NA	0.00	10.37	742.51	NA	--	--	--	--	NA
RFI-55-09	753.75	--	NA	0.00	12.35	741.40	NA	NA	0.00	12.18	741.57	NA	--	--	--	--	NA
RFI-55-10	751.86	--	NA	0.00	10.39	741.47	NA	NA	0.00	9.33	742.53	NA	--	--	--	--	NA
RFI-55-11	751.69	--	--	--	--	--	--	NA	0.00	8.38	743.31	NA	--	--	--	--	NA
RFI-55-12	752.26	--	--	--	--	--	--	NA	0.00	8.70	743.56	NA	--	--	--	--	NA
RFI-65-01	742.82	--	--	--	--	--	--	NA	0.00	5.04	737.78	NA	--	--	--	--	NA
RFI-81-02	745.92	--	NA	0.00	15.57	730.35	NA	NA	0.00	15.23	730.69	NA	--	--	--	--	NA
RFI-81-03	745.70	--	NA	0.00	16.26	729.44	NA	NA	0.00	14.62	731.08	NA	--	--	--	--	NA
RFI-81-08	741.43	--	NA	0.00	11.32	730.11	NA	NA	0.00	8.59	732.84	NA	--	--	--	--	NA
RFI-81-09	745.89	--	NA	0.00	13.97	731.92	NA	NA	0.00	12.31	733.58	NA	--	--	--	--	NA
RFI-81-11	740.34	--	NA	0.00	7.44	732.90	NA	NA	0.00	5.40	734.94	NA	--	--	--	--	NA
RFI-81-12R	742.60	--	--	--	--	--	--	NA	0.00	3.68	738.92	NA	--	--	--	--	NA
RFI-81-13	744.61	--	NA	0.00	12.45	732.16	NA	NA	0.00	11.30	733.31	NA	--	--	--	--	NA
RFI-81-21	753.80	--	--	--	--	--	--	NA	0.00	14.40	739.40	NA	--	--	--	--	NA
RFI-81-22	742.58	--	NA	0.00	5.69	736.89	NA	NA	0.00	3.80	738.78	NA	--	--	--	--	NA
RFI-81-33	736.94	--	NA	0.00	7.44	729.50	NA	NA	0.00	4.19	732.75	NA	--	--	--	--	NA
RFI-81-35	743.23	--	NA	0.00	14.12	729.11	NA	NA	0.00	14.90	728.33	NA	--	--	--	--	NA
RFI-81-39R	745.77	--	--	--	--	--	--	NA	0.00	9.30	736.47	NA	--	--	--	--	NA
RFI-81-43	743.76	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-81-45	742.87	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-81-47	742.38	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-81-49	742.71	--	--	--	--	--	--	NA	0.00	10.87	731.84	NA	--	--	--	--	NA
RFI-81-50	740.60	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-81-51	742.35	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-83/84-01	741.34	--	NA	0.00	5.47	735.87	NA	NA	0.00	4.58	736.76	NA	--	--	--	--	NA
RFI-83/84-02	741.59	--	NA	0.00	5.86	735.73	NA	NA	0.00	5.02	736.57	NA	--	--	--	--	NA
RFI-83/84-04	745.51	0.89	10.33	0.16	10.49	735.02	735.16	9.59	0.06	9.65	735.86	735.91	--	--	--	--	NA
RFI-83/84-06	745.58	0.89	11.03	1.88	12.91	732.67	734.34	10.32	2.59	12.91	732.67	734.98	--	--	--	--	NA
RFI-83/84-07	746.56	0.88	10.81	2.00	12.81	733.75	735.51	NA	0.00	10.25	736.31	NA	--	--	--	--	NA
RFI-83/84-11	741.61	--	NA	0.00	7.93	733.68	NA	NA	0.00	6.79	734.82	NA	--	--	--	--	NA
RFI-83/84-20	745.24	--	NA	0.00	9.05	736.19	NA	NA	0.00	8.36	736.88	NA	--	--	--	--	NA
RFI-83/84-25	745.83	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-83/84-27	745.72	--	NA	0.00	12.94	732.78	NA	--	--	--	--	NA	--	--	--	--	NA
RFI-83/84-27R	745.84	--	--	--	--	--	--	NA	0.00	12.34	733.50	NA	--	--	--	--	NA
RFI-83/84-29	742.76	--	--	--	--	--	--	NA	0.00	12.73	730.03	NA	--	--	--	--	NA
RFI-83/84-44	746.16	0.89	10.90	0.25	11.15	735.01	735.23	NA	0.00	10.30	735.86	NA	--	--	--	--	NA
RFI-83/84-45	746.22	0.89	NA	0.00	11.03	735.19	NA	10.09	0.90	10.99	735.23	736.03	--	--	--	--	NA
RFI-83/84-46	746.38	--	--	--	--	--	--	NA	0.00	10.13	736.25	NA	--	--	--	--	NA
RFI-83/84-48	746.23	--	--	--	--	--	--	NA	0.00	9.73	736.50	NA	--	--	--	--	NA
RFI-83/84-49	745.25	0.89	--	--	--	--	--	9.75	4.06	13.81	731.44	735.05	--	--	--	--	NA
RFI-83/84-51	742.39	--	--	--	--	--	--	NA	0.00	6.61	735.78	NA	--	--	--	--	NA

Table X-1

Groundwater Level Data:
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	March 17-18, 2003					December 2004					April 15, 2005				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
RFI-83/84-53	745.32	--	--	--	--	--	--	NA	0.00	9.82	735.50	NA	--	--	--	--	NA
RFI-83/84-54	746.41	--	--	--	--	--	--	NA	0.00	7.68	738.73	NA	--	--	--	--	NA
RFI-84-03S	727.23	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-84-03I	727.13	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-84-03D	727.30	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-84-04I	727.23	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-84-04D	727.08	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-84-05	726.63	--	NA	0.00	9.00	717.63	NA	NA	0.00	6.79	719.84	NA	--	--	--	--	NA
RFI-84-06R	720.12	--	--	--	--	--	--	NA	0.00	5.82	714.30	NA	--	--	--	--	NA
RFI-84-06RD	720.18	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-84-07	727.12	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-84-07D	727.52	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-84-08	727.22	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-84-08D	727.43	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-84-09S	719.43	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-84-09D	719.27	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-84-10S	718.70	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-84-10D	718.64	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-84-11S	721.97	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-85-02R	742.91	0.86	NA	0.00	12.64	730.27	NA	NA	0.00	10.79	732.12	NA	--	--	--	--	NA
RFI-85-03	746.21	--	NA	0.00	15.30	730.91	NA	NA	0.00	13.74	732.47	NA	--	--	--	--	NA
RFI-85-04	746.00	--	NA	0.00	15.47	730.53	NA	--	--	--	--	NA	--	--	--	--	NA
RFI-85-04R	745.95	--	NA	0.00	20.47	725.48	NA	NA	0.00	14.04	731.91	NA	--	--	--	--	NA
RFI-85-05	745.95	--	NA	0.00	22.29	723.66	NA	NA	0.00	21.08	724.87	NA	--	--	--	--	NA
RFI-85-06	742.43	0.86	NA	0.00	13.73	728.70	NA	--	--	--	--	NA	--	--	--	--	NA
RFI-85-07	745.97	--	NA	0.00	16.03	729.94	NA	NA	0.00	14.34	731.63	NA	--	--	--	--	NA
RFI-85-08	746.74	--	NA	0.00	15.46	731.28	NA	--	--	--	--	NA	--	--	--	--	NA
RFI-86-01	735.80	--	--	--	Dry	Dry	--	--	--	--	--	NA	--	--	--	--	NA
RFI-86-01R	735.51	--	NA	0.00	22.63	712.88	NA	NA	0.00	21.67	713.84	NA	--	--	--	--	NA
RFI-86-01D	735.58	--	--	--	--	--	--	NA	0.00	8.50	727.08	NA	--	--	--	--	NA
RFI-86-02	735.65	0.87	8.17	2.39	10.56	725.09	727.17	NA	0.00	7.09	728.56	NA	--	--	--	--	NA
RFI-86-03	736.62	0.87	8.08	0.68	8.76	727.86	728.45	6.52	0.03	6.55	730.07	730.10	--	--	--	--	NA
RFI-86-04	737.29	--	NA	0.00	4.00	733.29	NA	--	--	3.10	734.19	NA	--	--	--	--	NA
RFI-86-05	742.47	--	NA	0.00	12.13	730.34	NA	NA	0.00	10.02	732.45	NA	--	--	--	--	NA
RFI-86-06D	737.21	--	NA	0.00	22.97	714.24	NA	NA	0.00	22.20	715.01	NA	--	--	--	--	NA
RFI-86-06S	737.32	--	NA	0.00	12.34	724.98	NA	NA	0.00	11.56	725.76	NA	--	--	--	--	NA
RFI-86-08R	743.25	--	NA	0.00	13.59	--	NA	NA	0.00	11.68	731.57	NA	--	--	--	--	NA
RFI-86-12	738.11	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-86-14	731.80	--	--	--	--	--	--	NA	0.00	16.23	715.57	NA	--	--	--	--	NA
RFI-86-15	718.03	--	NA	0.00	5.28	--	NA	NA	0.00	4.25	713.78	NA	--	--	--	--	NA
RFI-86-16	731.51	--	--	--	Dry	Dry	--	--	--	--	--	NA	--	--	--	--	NA
RFI-86-16R	731.76	--	--	--	--	--	--	NA	0.00	15.81	715.95	NA	--	--	--	--	NA
RFI-94-02R	727.35	--	NA	0.00	5.60	721.75	NA	NA	0.00	6.77	720.58	NA	--	--	--	--	NA
RFI-94-05	727.48	--	NA	0.00	3.78	723.70	NA	NA	0.00	2.49	724.99	NA	--	--	--	--	NA
RFI-94-07	720.32	--	NA	0.00	4.78	715.54	NA	NA	0.00	3.18	717.14	NA	--	--	--	--	NA
RFI-94-08	727.44	--	--	--	--	--	--	NA	0.00	13.90	713.54	NA	--	--	--	--	NA
RFI-94-09	719.28	--	--	--	--	--	--	NA	0.00	7.47	711.81	NA	--	--	--	--	NA
RFI-94-10	719.00	--	--	--	--	--	--	NA	0.00	6.35	712.65	NA	--	--	--	--	NA
RFI-94-11	719.54	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-SS-01	716.07	--	--	--	--	--	--	NA	0.00	2.02	714.05	NA	--	--	--	--	NA
RFI-SS-02	716.18	0.99	NA	0.00	14.07	--	NA	NA	0.00	2.21	713.97	NA	--	--	--	--	NA
RFI-SS-03	742.62	0.99	NA	0.00	9.15	--	NA	NA	0.00	12.50	730.12	NA	--	--	--	--	NA
RFI-SS-04	745.79	0.99	NA	0.00	9.27	--	NA	NA	0.00	7.83	737.96	NA	--	--	--	--	NA
RFI-SS-05	746.05	0.99	NA	0.00	10.03	--	NA	NA	0.00	8.84	737.21	NA	--	--	--	--	NA

Table X-1 **Groundwater Level Data:**
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	March 17-18, 2003					December 2004					April 15, 2005				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
RFI-SS-06	745.94	0.99	--	--	--	--	--	6.98	0.42	7.40	738.54	738.96	--	--	--	--	NA
RFI-SS-08	750.98	--	--	--	--	--	--	NA	0.00	10.35	740.63	NA	--	--	--	--	NA
RFI-SS-09	--	--	--	--	--	--	--	NA	0.00	10.14		NA	--	--	--	--	NA
RW-1-P1	751.11	0.92	12.00	0.44	12.44	738.67	739.07	10.60	0.05	10.65	740.46	740.51	--	--	--	--	NA
RW-1-P2	751.30	0.92	11.54	4.66	16.20	735.10	739.39	10.59	2.61	13.20	738.10	740.50	--	--	--	--	NA
RW-6-P1	753.39	--	--	--	--	--	--	--	--	--	--	NA	--	--	--	--	NA
RW-7-P1	753.23	--	--	--	--	--	--	NA	0.00	12.31	740.92	NA	--	--	--	--	NA
RW-3A-P1	750.73	--	NA	0.00	9.40	741.33	NA	NA	0.00	8.80	741.93	NA	--	--	--	--	NA
RW-3A-P2	750.40	--	NA	0.00	8.97	741.43	NA	--	--	--	--	NA	--	--	--	--	NA
Dort Bridge	722.95	--	NA	0.00	15.58	707.37	NA	--	--	--	--	NA	--	--	--	--	NA
Fifth Bridge	720.33	--	NA	0.00	13.17	707.16	NA	--	--	--	--	NA	--	--	--	--	NA
Hamilton Bridge	722.61	--	NA	0.00	15.38	707.23	NA	--	--	--	--	NA	--	--	--	--	NA
Hamilton Bridge 2005	720.09	--	NA	0.00	15.38	704.71	NA	--	--	--	--	NA	--	--	--	--	NA

Table X-1 **Groundwater Level Data:**
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	June 7, 2005					July 2005				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
03-01	744.67	0.9	--	--	--	--	NA	--	--	--	--	NA
03-01R	744.90	--	--	--	--	--	NA	--	--	--	--	NA
03-02	743.24	--	--	--	--	--	NA	--	--	--	--	NA
03-3	747.01	0.9	--	--	--	--	NA	--	--	--	--	NA
03-3R	746.47	0.9	--	--	--	--	NA	--	--	--	--	NA
03-101	--	0.9	--	--	--	--	NA	--	--	--	--	NA
03-101R	747.95	--	--	--	--	--	NA	--	--	--	--	NA
03-105	748.16	--	--	--	--	--	NA	--	--	--	--	NA
03-105R	747.76	--	--	--	--	--	NA	--	--	--	--	NA
03-105R2	748.16	--	--	--	--	--	NA	--	--	--	--	NA
03-109	747.40	--	--	--	--	--	NA	--	--	--	--	NA
03-110	746.95	--	--	--	--	--	NA	--	--	--	--	NA
03-110R	746.76	--	--	--	--	--	NA	--	--	--	--	NA
03-111	744.70	--	--	--	--	--	NA	--	--	--	--	NA
03-112	747.21	--	--	--	--	--	NA	--	--	--	--	NA
03-113	--	--	--	--	--	--	NA	--	--	--	--	NA
03-114	746.49	--	--	--	--	--	NA	--	--	--	--	NA
03-114R	746.27	--	--	--	--	--	NA	--	--	--	--	NA
04-1	731.03	--	--	--	--	--	NA	--	--	--	--	NA
04-2	730.37	--	--	--	--	--	NA	--	--	--	--	NA
04-3	730.19	--	--	--	--	--	NA	--	--	--	--	NA
04-4	--	--	--	--	--	--	NA	--	--	--	--	NA
04-5	730.69	--	--	--	--	--	NA	--	--	--	--	NA
04-6R	735.00	--	--	--	--	--	NA	--	--	--	--	NA
04-120	750.52	--	--	--	--	--	NA	--	--	--	--	NA
04-121	752.12	--	--	--	--	--	NA	--	--	--	--	NA
04-140	751.06	--	--	--	--	--	NA	--	--	--	--	NA
04-160	729.13	--	--	--	--	--	NA	--	--	--	--	NA
07-01	732.41	--	--	--	--	--	NA	--	--	--	--	NA
07-02	727.47	--	--	--	--	--	NA	--	--	--	--	NA
11-120	747.44	--	--	--	--	--	NA	--	--	--	--	NA
11-140	741.78	--	--	--	--	--	NA	--	--	--	--	NA
20-100	750.80	--	--	--	--	--	NA	NA	0.00	8.74	742.06	NA
20-101	752.60	--	--	--	--	--	NA	--	--	--	--	NA
20-101R	751.69	--	--	--	--	--	NA	NA	0.00	11.42	740.27	NA
20-101RD	752.13	--	--	--	--	--	NA	NA	0.00	11.35	740.78	NA
20-102	752.30	--	--	--	--	--	NA	NA	0.00	9.80	742.50	NA
20-102R	751.68	--	--	--	--	--	NA	--	--	--	--	NA
20-103N	751.69	--	--	--	--	--	NA	NA	0.00	9.95	741.74	NA
20-103S	751.67	--	--	--	--	--	NA	NA	0.00	9.99	741.68	NA
20-105R	751.91	--	--	--	--	--	NA	NA	0.00	10.07	741.84	NA
20-120	749.45	--	--	--	--	--	NA	--	--	--	--	NA
20-121	753.25	--	--	--	--	--	NA	NA	0.00	11.60	741.65	NA
20-122	752.40	--	--	--	--	--	NA	NA	0.00	11.65	740.75	NA
20-140	752.80	--	--	--	--	--	NA	NA	0.00	11.09	741.71	NA
20-141	753.25	--	--	--	--	--	NA	NA	0.00	8.61	744.64	NA
20-142	749.60	--	--	--	--	--	NA	NA	0.00	7.60	742.00	NA
20-143	749.25	--	--	--	--	--	NA	NA	0.00	9.02	740.23	NA
20-144	749.90	--	--	--	--	--	NA	NA	0.00	7.96	741.94	NA
20-145	749.34	--	--	--	--	--	NA	NA	0.00	8.83	740.51	NA
20-146	--	--	--	--	--	--	NA	--	--	--	--	NA
20-160	752.81	0.99	--	--	--	--	NA	NA	0.00	11.40	741.41	NA
20-162	753.48	0.99	--	--	--	--	NA	11.90	0.65	12.55	740.93	741.57
20-163	750.44	0.99	--	--	--	--	NA	--	--	--	--	NA
20-163R	750.58	0.99	--	--	--	--	NA	9.75	4.46	14.21	736.37	740.79
20-164	751.14	0.99	--	--	--	--	NA	NA	0.00	13.00	738.14	NA
20-165	749.97	--	--	--	--	--	NA	--	--	--	--	NA

Table X-1 **Groundwater Level Data:**
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	June 7, 2005					July 2005				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
20-167	753.34	0.99	--	--	--	--	NA	12.73	0.73	13.46	739.88	740.60
20-168	753.44	0.99	--	--	--	--	NA	--	--	--	--	NA
20-169	753.38	0.99	--	--	--	--	NA	NA	0.00	12.72	740.66	NA
20-170	748.22	0.99	--	--	--	--	NA	NA	0.00	8.25	739.97	NA
20-171	748.20	--	--	--	--	--	NA	NA	0.00	7.42	740.78	NA
20-500	750.63	--	--	--	--	--	NA	NA	0.00	8.70	741.93	NA
20-500R	750.77	--	--	--	--	--	NA	NA	0.00	8.94	741.83	NA
20-501	750.63	--	--	--	--	--	NA	NA	0.00	9.05	741.58	NA
20-502	751.29	0.99	--	--	--	--	NA	9.45	2.10	11.55	739.74	741.82
20-503	751.54	0.99	--	--	--	--	NA	10.55	0.90	11.45	740.09	740.98
20-504	749.74	--	--	--	--	--	NA	--	--	--	--	NA
20-505D	752.20	--	--	--	--	--	NA	--	--	--	--	NA
20-505S	750.54	--	--	--	--	--	NA	--	--	--	--	NA
20-506	751.35	--	--	--	--	--	NA	NA	0.00	9.56	741.79	NA
20-FP-1	752.17	0.99	--	--	--	--	NA	--	--	--	--	NA
20-FP-10	747.25	--	--	--	--	--	NA	--	--	--	--	NA
20-FP-11	743.97	--	--	--	--	--	NA	--	--	--	--	NA
20-FP-11R	744.09	--	--	--	--	--	NA	--	--	--	--	NA
20-FP-12	742.51	--	--	--	--	--	NA	--	--	--	--	NA
20-FP-2	753.51	--	--	--	--	--	NA	NA	0.00	12.15	741.36	NA
20-FP-4R	751.25	0.99	--	--	--	--	NA	9.29	0.58	9.87	741.38	741.95
20-FP-5	748.82	--	--	--	--	--	NA	--	--	--	--	NA
20-FP-6	747.91	--	--	--	--	--	NA	NA	0.00	7.12	740.79	NA
20-FP-6R	747.95	--	--	--	--	--	NA	NA	0.00	7.32	740.63	NA
20-FP-7	748.53	0.99	--	--	--	--	NA	--	--	--	--	NA
20-FP-8	748.73	0.99	--	--	--	--	NA	8.13	1.26	9.39	739.34	740.59
20-FP-9	749.45	--	--	--	--	--	NA	--	--	--	--	NA
20-FP-10	747.28	--	--	--	--	--	NA	--	--	--	--	NA
30-100	747.24	--	--	--	--	--	NA	--	--	--	--	NA
30-120	747.48	--	--	--	--	--	NA	--	--	--	--	NA
30-140	745.88	--	--	--	--	--	NA	--	--	--	--	NA
31-1	735.19	--	--	--	--	--	NA	NA	0.00	7.92	727.27	NA
31-2	733.97	--	--	--	--	--	NA	NA	0.00	6.43	727.54	NA
31-3	734.44	--	--	--	--	--	NA	NA	0.00	6.75	727.69	NA
31-4D	733.87	0.92	--	--	--	--	NA	6.02	0.01	6.03	727.84	727.85
31-4S	733.90	0.92	--	--	--	--	NA	NA	0.00	5.89	728.01	NA
31-5	736.12	--	--	--	--	--	NA	NA	0.00	10.14	725.98	NA
31-6	734.54	--	--	--	--	--	NA	NA	0.00	7.64	726.90	NA
31-7	729.75	0.75	--	--	--	--	NA	6.96	1.00	7.96	721.79	722.54
31-8	730.26	--	--	--	--	--	NA	NA	0.00	7.86	722.40	NA
36 FP1	750.60	--	NA	0.00	11.15	739.45	NA	NA	0.00	11.43	739.17	NA
36 FP2	750.30	0.9	11.14	0.30	11.44	738.86	739.13	11.38	0.55	11.93	738.37	738.87
36 FP3	749.41	0.9	--	--	--	--	NA	10.15	0.01	10.16	739.25	739.26
36 FP4	753.70	0.9	NA	0.00	14.44	739.26	NA	14.68	0.01	14.69	739.01	739.02
36 FP5	753.84	0.9	NA	0.00	15.57	738.27	NA	NA	0.00	14.85	738.99	NA
36 FP6	749.51	0.9	7.81	7.04	14.85	734.66	741.00	--	--	--	--	NA
36 FP7	750.02	0.9	10.14	6.32	16.46	733.56	739.25	10.46	5.41	15.87	734.15	739.02
36 FP8	748.83	--	--	--	--	--	NA	NA	0.00	6.81	742.02	NA
36-100	750.54	--	--	--	--	--	NA	--	--	--	--	NA
36-101	750.11	--	--	--	--	--	NA	--	--	--	--	NA
36-120	754.47	--	--	--	--	--	NA	NA	0.00	12.57	741.90	NA
36-121	753.79	--	--	--	--	--	NA	NA	0.00	15.80	737.99	NA
36-160	750.12	0.9	7.03	2.60	9.63	740.49	742.83	6.80	2.55	9.35	740.77	743.07
36-161	745.46	--	--	--	--	--	NA	--	--	--	--	NA
37-01	750.37	--	--	--	--	--	NA	NA	0.00	10.00	740.37	NA
38-120	748.43	--	--	--	--	--	NA	--	--	--	--	NA
40-1	733.43	--	--	--	--	--	NA	--	--	--	--	NA

Table X-1 **Groundwater Level Data:**
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	June 7, 2005					July 2005				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
40-1R	733.64	--	--	--	--	--	NA	--	--	--	--	NA
40-1R2	--	--	--	--	--	--	NA	--	--	--	--	NA
40-2	736.47	--	--	--	--	--	NA	--	--	--	--	NA
40-3	737.01	--	--	--	--	--	NA	--	--	--	--	NA
40-301	732.05	--	--	--	--	--	NA	--	--	--	--	NA
40-302	732.96	--	--	--	--	--	NA	--	--	--	--	NA
40-303	729.41	--	--	--	--	--	NA	--	--	--	--	NA
40-303R	730.41	--	--	--	--	--	NA	--	--	--	--	NA
40-304	731.11	--	--	--	--	--	NA	--	--	--	--	NA
40-305	731.24	--	--	--	--	--	NA	--	--	--	--	NA
40-4	738.17	--	--	--	--	--	NA	--	--	--	--	NA
40-4R	737.90	--	--	--	--	--	NA	--	--	--	--	NA
40-5	735.84	0.92	--	--	--	--	NA	--	--	--	--	NA
40-6	735.53	--	--	--	--	--	NA	--	--	--	--	NA
40-6R	735.00	--	--	--	--	--	NA	--	--	--	--	NA
40-07	733.63	--	--	--	--	--	NA	--	--	--	--	NA
40-07R	733.13	--	--	--	--	--	NA	--	--	--	--	NA
40-07R2	735.37	0.92	--	--	--	--	NA	--	--	--	--	NA
43-100	753.07	--	--	--	--	--	NA	--	--	--	--	NA
43-101R	752.60	--	--	--	--	--	NA	--	--	--	--	NA
43-102	752.63	--	--	--	--	--	NA	--	--	--	--	NA
43-103	752.10	--	--	--	--	--	NA	--	--	--	--	NA
43-140	750.14	--	--	--	--	--	NA	--	--	--	--	NA
43-141	752.78	--	--	--	--	--	NA	--	--	--	--	NA
43-160	750.43	0.92	--	--	--	--	NA	--	--	--	--	NA
43-161	750.19	0.92	--	--	--	--	NA	--	--	--	--	NA
43-162	749.90	0.92	--	--	--	--	NA	--	--	--	--	NA
43-163	749.65	0.92	--	--	--	--	NA	--	--	--	--	NA
43-164	749.59	0.92	--	--	--	--	NA	--	--	--	--	NA
43-165	749.41	0.92	--	--	--	--	NA	--	--	--	--	NA
43-166	747.97	--	--	--	--	--	NA	--	--	--	--	NA
43-167	748.43	--	--	--	--	--	NA	--	--	--	--	NA
43-168	750.10	--	--	--	--	--	NA	NA	0.00	9.39	740.71	NA
43-169	750.32	--	--	--	--	--	NA	--	--	--	--	NA
43-220	753.95	--	--	--	--	--	NA	--	--	--	--	NA
43-242	753.64	--	--	--	--	--	NA	--	--	--	--	NA
55-1	753.43	--	--	--	--	--	NA	NA	0.00	11.50	741.93	NA
55-2	753.06	--	--	--	--	--	NA	NA	0.00	10.75	742.31	NA
55-3	753.52	--	--	--	--	--	NA	NA	0.00	11.05	742.47	NA
55-4	753.59	--	--	--	--	--	NA	NA	0.00	10.45	743.14	NA
55-5	753.94	--	--	--	--	--	NA	NA	0.00	12.25	741.69	NA
70-100	742.36	--	--	--	--	--	NA	--	--	--	--	NA
70-101	742.68	0.91	--	--	--	--	NA	--	--	--	--	NA
70-102	742.75	--	--	--	--	--	NA	--	--	--	--	NA
70-102R	742.56	0.91	--	--	--	--	NA	--	--	--	--	NA
70-103	743.78	0.91	--	--	--	--	NA	--	--	--	--	NA
70-104	743.51	--	--	--	--	--	NA	--	--	--	--	NA
70-105	743.58	--	--	--	--	--	NA	--	--	--	--	NA
70-106	743.60	--	--	--	--	--	NA	--	--	--	--	NA
70-107	742.58	--	--	--	--	--	NA	--	--	--	--	NA
70-107R	742.80	0.91	--	--	--	--	NA	--	--	--	--	NA
70-108	744.06	0.91	--	--	--	--	NA	--	--	--	--	NA
70-108R	743.64	--	--	--	--	--	NA	--	--	--	--	NA
70-109	741.60	--	--	--	--	--	NA	--	--	--	--	NA
70-160	739.41	--	--	--	--	--	NA	--	--	--	--	NA
70-162	743.45	--	--	--	--	--	NA	--	--	--	--	NA
70-163	742.59	--	--	--	--	--	NA	--	--	--	--	NA

Table X-1 **Groundwater Level Data:**
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	June 7, 2005					July 2005				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
70-164	742.37	--	--	--	--	--	NA	--	--	--	--	NA
70-165	741.26	--	--	--	--	--	NA	--	--	--	--	NA
84-1	727.09	--	--	--	--	--	NA	--	--	--	--	NA
84-3	727.07	--	--	--	--	--	NA	--	--	--	--	NA
84-4	727.25	--	--	--	--	--	NA	--	--	--	--	NA
84-5	727.87	--	--	--	--	--	NA	--	--	--	--	NA
84-6	726.49	--	--	--	--	--	NA	--	--	--	--	NA
84-6R	720.32	--	--	--	--	--	NA	--	--	--	--	NA
84-6R2	727.02	--	NA	0.00	6.62	720.40	NA	NA	0.00	6.49	720.53	NA
84-6R2-D	726.80	--	--	--	--	--	NA	NA	0.00	5.32	721.48	NA
84-7	727.53	--	NA	0.00	8.54	718.99	NA	NA	0.00	8.32	719.21	NA
84-7-D	727.42	--	--	--	--	--	NA	NA	0.00	8.97	718.45	NA
86-1	743.20	--	--	--	--	--	NA	--	--	--	--	NA
86-100	740.05	--	--	--	--	--	NA	--	--	--	--	NA
86-2	742.93	--	--	--	--	--	NA	--	--	--	--	NA
86-3	746.31	--	--	--	--	--	NA	--	--	--	--	NA
87-FP1	715.79	--	--	--	--	--	NA	--	--	--	--	NA
87-FP2	742.24	--	--	--	--	--	NA	--	--	--	--	NA
87-FP3	739.07	--	--	--	--	--	NA	--	--	--	--	NA
87-FP4	742.11	--	--	--	--	--	NA	--	--	--	--	NA
87-FP5	741.01	--	--	--	--	--	NA	--	--	--	--	NA
87-FPD2	742.05	--	--	--	--	--	NA	--	--	--	--	NA
87-FPD3	742.05	--	--	--	--	--	NA	--	--	--	--	NA
88-1	741.09	--	--	--	--	--	NA	--	--	--	--	NA
88-2	741.37	--	--	--	--	--	NA	--	--	--	--	NA
88-4	741.37	--	--	--	--	--	NA	--	--	--	--	NA
88-5	742.01	--	--	--	--	--	NA	--	--	--	--	NA
88-6	741.60	--	--	--	--	--	NA	--	--	--	--	NA
88-7	742.20	--	--	--	--	--	NA	--	--	--	--	NA
88-8	741.53	--	--	--	--	--	NA	--	--	--	--	NA
88-9	741.86	--	--	--	--	--	NA	--	--	--	--	NA
94-100	720.36	--	--	--	--	--	NA	NA	0.00	4.75	715.61	NA
ACSP-B2AR	738.66	--	NA	0.00	26.23	712.43	NA	--	--	--	--	NA
BD01-01	744.29	--	--	--	--	--	NA	--	--	--	--	NA
BD01-02R	736.42	--	--	--	--	--	NA	--	--	--	--	NA
BD01-03	733.49	--	--	--	21.01	712.48	NA	--	--	--	--	NA
BD01-04	736.02	--	--	--	--	--	NA	--	--	--	--	NA
GM-1	724.64	--	--	--	--	--	NA	--	--	--	--	NA
GM-10	725.79	--	--	--	--	--	NA	--	--	--	--	NA
GM-11	730.31	--	--	--	--	--	NA	--	--	--	--	NA
GM-12	738.62	--	--	--	--	--	NA	--	--	--	--	NA
GM-2	725.40	--	--	--	--	--	NA	--	--	--	--	NA
GM-3	725.54	--	--	--	--	--	NA	--	--	--	--	NA
GM-4	738.12	--	--	--	--	--	NA	--	--	--	--	NA
GM-5	737.05	--	--	--	--	--	NA	--	--	--	--	NA
GM-6	734.96	--	--	--	--	--	NA	--	--	--	--	NA
GM-7	739.81	--	--	--	--	--	NA	--	--	--	--	NA
GM-8	738.71	--	--	--	--	--	NA	--	--	--	--	NA
GM-9	724.39	--	--	--	--	--	NA	--	--	--	--	NA
MW-00-FP6	740.73	--	--	--	--	--	NA	--	--	--	--	NA
MW-00-FP7	740.73	--	--	--	--	--	NA	--	--	--	--	NA
MW-00-FP8	741.43	--	--	--	--	--	NA	--	--	--	--	NA
MW-07-01	732.42	--	--	--	--	--	NA	--	--	--	--	NA
MW-07-02	736.75	--	--	--	--	--	NA	--	--	--	--	NA
MW-16	713.53	--	--	--	--	--	NA	NA	0.00	3.11	710.42	NA
MW-17	714.54	--	--	--	--	--	NA	NA	0.00	3.96	710.58	NA
MW-18	714.33	--	--	--	--	--	NA	NA	0.00	6.09	708.24	NA

Table X-1 **Groundwater Level Data:**
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	June 7, 2005					July 2005				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
MW-19	712.00	--	--	--	--	--	NA	NA	0.00	2.03	709.97	NA
MW-20	714.02	--	--	--	--	--	NA	NA	0.00	4.90	709.12	NA
MW-21	716.51	--	--	--	--	--	NA	NA	0.00	4.70	711.81	NA
MW-22	719.37	--	--	--	--	--	NA	NA	0.00	7.22	712.15	NA
MW-23	719.89	--	--	--	--	--	NA	NA	0.00	6.43	713.46	NA
MW-24	724.81	--	--	--	--	--	NA	--	--	--	--	NA
MW-25	722.38	--	--	--	--	--	NA	NA	0.00	8.44	713.94	NA
MW-26	722.18	--	--	--	--	--	NA	NA	0.00	4.98	717.20	NA
OW-3D	736.78	--	--	--	--	--	NA	--	--	--	--	NA
OW-3S	738.34	--	--	--	--	--	NA	--	--	--	--	NA
OW-5	725.32	--	--	--	--	--	NA	--	--	--	--	NA
P-1	751.11	0.92	--	--	--	--	NA	--	--	--	--	NA
P-2	751.30	0.92	--	--	--	--	NA	--	--	--	--	NA
RFI-02-05	738.88	--	--	--	--	--	NA	--	--	--	--	NA
RFI-02-07	735.06	--	--	--	--	--	NA	--	--	--	--	NA
RFI-02-08	736.06	--	--	--	--	--	NA	--	--	--	--	NA
RFI-02-08R	736.07	--	--	--	--	--	NA	--	--	--	--	NA
RFI-02-12	738.51	--	--	--	--	--	NA	--	--	--	--	NA
RFI-02-13	731.00	--	--	--	--	--	NA	--	--	--	--	NA
RFI-02-14	738.73	0.95	--	--	--	--	NA	--	--	--	--	NA
RFI-02-15	738.74	--	--	--	--	--	NA	--	--	--	--	NA
RFI-02-16	738.66	--	--	--	--	--	NA	--	--	--	--	NA
RFI-02-17	738.67	--	--	--	--	--	NA	--	--	--	--	NA
RFI-02-18	738.69	--	--	--	--	--	NA	--	--	--	--	NA
RFI-02-19	738.54	--	--	--	--	--	NA	--	--	--	--	NA
RFI-02-20	738.30	--	--	--	--	--	NA	--	--	--	--	NA
RFI-02-21	738.50	--	--	--	--	--	NA	--	--	--	--	NA
RFI-02-22	729.77	--	--	--	--	--	NA	--	--	--	--	NA
RFI-02-23	738.57	--	--	--	--	--	NA	--	--	--	--	NA
RFI-02-24	729.88	--	--	--	--	--	NA	--	--	--	--	NA
RFI-03-01	748.38	--	--	--	--	--	NA	--	--	--	--	NA
RFI-03-02	742.35	--	--	--	--	--	NA	--	--	--	--	NA
RFI-03-03	742.01	--	--	--	--	--	NA	--	--	--	--	NA
RFI-03-04	746.67	--	--	--	--	--	NA	--	--	--	--	NA
RFI-03-15R	747.54	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-01	750.38	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-02	754.10	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-03	752.43	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-04	754.32	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-05	754.34	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-06	752.13	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-07	754.38	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-08	755.77	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-08R	755.78	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-09	751.65	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-10	754.21	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-11	754.42	0.92	--	--	--	--	NA	--	--	--	--	NA
RFI-05-12	754.03	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-13	754.16	0.92	--	--	--	--	NA	--	--	--	--	NA
RFI-05-14	754.12	0.92	--	--	--	--	NA	--	--	--	--	NA
RFI-05-19D	749.31	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-19DR	749.48	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-19S	749.48	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-20	750.41	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-21	748.73	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-30	748.55	--	--	--	--	--	NA	--	--	--	--	NA
RFI-05-East	753.59	0.92	--	--	--	--	NA	--	--	--	--	NA

Table X-1 **Groundwater Level Data:**
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	June 7, 2005					July 2005				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
RFI-05-North	753.55	0.92	--	--	--	--	NA	--	--	--	--	NA
RFI-05-South	754.08	--	--	--	--	--	NA	--	--	--	--	NA
RFI-07-01	730.56	--	--	--	--	--	NA	--	--	--	--	NA
RFI-07-01R	736.11	--	--	--	--	--	NA	--	--	--	--	NA
RFI-07-01R2	736.00	--	--	--	--	--	NA	--	--	--	--	NA
RFI-07-03	726.74	--	--	--	--	--	NA	--	--	--	--	NA
RFI-07-08	728.12	--	--	--	--	--	NA	--	--	--	--	NA
RFI-09-01	725.15	--	--	--	--	--	NA	--	--	--	--	NA
RFI-09-01R	--	--	--	--	7.00		NA	NA	0.00	5.48	--	NA
RFI-09-04	725.92	--	--	--	--	--	NA	--	--	--	--	NA
RFI-09-04R	725.95	--	NA	0.00	15.15	710.80	NA	NA	0.00	15.15	710.80	NA
RFI-09-06	727.66	--	--	--	--	--	NA	NA	0.00	5.51	722.15	NA
RFI-09-07	727.51	0.75	--	--	--	--	NA	NA	0.00	7.58	719.93	NA
RFI-09-08	728.45	--	--	--	--	--	NA	NA	0.00	8.88	719.57	NA
RFI-09-08D	728.10	--	--	--	--	--	NA	NA	0.00	8.25	719.85	NA
RFI-09-09	728.20	--	--	--	--	--	NA	NA	0.00	6.16	722.04	NA
RFI-09-09D	728.30	--	--	--	--	--	NA	NA	0.00	7.00	721.30	NA
RFI-09-10	726.45	--	--	--	--	--	NA	NA	0.00	3.06	723.39	NA
RFI-09-11	728.85	--	--	--	--	--	NA	NA	0.00	7.07	721.78	NA
RFI-09-11D	728.50	--	--	--	--	--	NA	NA	0.00	7.04	721.46	NA
RFI-09-12	731.39	--	--	--	--	--	NA	NA	0.00	3.29	728.10	NA
RFI-09-13	725.09	--	--	--	--	--	NA	NA	0.00	7.21	717.88	NA
RFI-09-14	724.44	--	--	--	--	--	NA	NA	0.00	6.40	718.04	NA
RFI-09-32	723.85	--	--	--	--	--	NA	NA	0.00	7.18	716.67	NA
RFI-09-36R	725.90	--	--	--	--	--	NA	NA	0.00	7.22	718.68	NA
RFI-09-40R	729.76	0.75	--	--	--	--	NA	6.77	0.00	9.89	719.87	722.21
RFI-09-44	728.22	--	--	--	--	--	NA	NA	0.00	6.06	722.16	NA
RFI-09-45	730.17	--	--	--	--	--	NA	--	--	--	--	NA
RFI-09-45R	--	--	--	--	--	--	NA	NA	0.00	5.97	--	--
RFI-09-46	723.07	--	--	--	--	--	NA	NA	0.00	8.72	714.35	NA
RFI-09-47	729.64	0.75	--	--	--	--	NA	6.65	2.44	9.09	720.55	722.38
RFI-09-49	726.56	--	--	--	--	--	NA	--	--	--	--	NA
RFI-09-49R	726.43	--	NA	0.00	15.07	711.36	NA	NA	0.00	15.09	711.34	NA
RFI-09-52	--	--	--	--	--	--	NA	NA	0.00	7.94	--	--
RFI-09-53	725.48	--	NA	0.00	10.12	715.36	NA	NA	0.00	10.22	715.26	NA
RFI-09-54S	728.05	--	--	--	--	--	NA	NA	0.00	8.12	719.93	NA
RFI-09-54D	728.01	--	--	--	--	--	NA	NA	0.00	8.14	719.87	NA
RFI-09-55S	728.02	--	--	--	--	--	NA	NA	0.00	8.10	719.92	NA
RFI-09-55D	728.10	--	--	--	--	--	NA	NA	0.00	8.25	719.85	NA
RFI-09-56	726.93	--	--	--	--	--	NA	NA	0.00	5.50	721.43	NA
RFI-09-57	724.90	--	--	--	--	--	NA	NA	0.00	6.18	718.72	NA
RFI-09-58	723.38	--	--	--	--	--	NA	NA	0.00	5.48	717.90	NA
RFI-10-01	749.11	--	--	--	--	--	NA	NA	0.00	7.52	741.59	NA
RFI-10-02	750.54	--	--	--	--	--	NA	--	--	--	--	NA
RFI-10-03	751.79	--	--	--	--	--	NA	NA	0.00	9.93	741.86	NA
RFI-10-04	750.64	--	NA	0.00	8.56	742.08	NA	NA	0.00	9.65	740.99	NA
RFI-10-05	751.57	--	--	--	--	--	NA	--	--	--	--	NA
RFI-10-06	752.17	--	--	--	--	--	NA	--	--	--	--	NA
RFI-10-07	751.33	--	--	--	--	--	NA	NA	0.00	9.30	742.03	NA
RFI-10-08	750.79	--	--	--	--	--	NA	NA	0.00	8.78	742.01	NA
RFI-10-11	746.14	--	NA	0.00	5.35	740.79	NA	NA	0.00	5.40	740.74	NA
RFI-10-12	750.35	--	--	--	--	--	NA	--	--	--	--	NA
RFI-10-15	751.25	--	NA	0.00	8.66	742.59	NA	NA	0.00	9.20	742.05	NA
RFI-10-24	751.53	--	NA	0.00	10.27	741.26	NA	NA	0.00	10.94	740.59	NA
RFI-10-25	753.10	--	NA	0.00	11.89	741.21	NA	NA	0.00	12.54	740.56	NA
RFI-10-26	749.32	--	NA	0.00	7.81	741.51	NA	NA	0.00	7.91	741.41	NA
RFI-10-28	752.58	--	NA	0.00	12.35	740.23	NA	NA	0.00	12.92	739.66	NA

Table X-1 **Groundwater Level Data:**
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	June 7, 2005					July 2005				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
RFI-10-29	752.40	--	NA	0.00	14.42	737.98	NA	NA	0.00	13.00	739.40	NA
RFI-10-30	745.56	--	--	--	--	--	NA	NA	0.00	4.00	741.56	NA
RFI-10-31	746.66	--	NA	0.00	4.12	742.54	NA	NA	0.00	4.35	742.31	NA
RFI-10-32	754.61	--	NA	0.00	12.91	741.70	NA	NA	0.00	13.47	741.14	NA
RFI-10-33	755.30	--	--	--	--	--	NA	NA	0.00	13.28	742.02	NA
RFI-10-34	755.77	--	--	--	--	--	NA	NA	0.00	14.75	741.02	NA
RFI-10-35	755.69	--	--	--	--	--	NA	NA	0.00	15.00	740.69	NA
RFI-10-36	752.82	--	--	--	--	--	NA	NA	0.00	12.90	739.92	NA
RFI-12-01R	741.98	0.93	--	--	--	--	NA	--	--	--	--	NA
RFI-12-02	742.41	0.93	--	--	--	--	NA	--	--	--	--	NA
RFI-12-02R	742.10	--	--	--	--	--	NA	--	--	--	--	NA
RFI-12-07R	742.43	--	--	--	--	--	NA	--	--	--	--	NA
RFI-12-07R2	741.95	--	--	--	--	--	NA	--	--	--	--	NA
RFI-12-08 (Replaced)	742.08	0.93	--	--	--	--	NA	--	--	--	--	NA
RFI-12-09	742.68	0.93	--	--	--	--	NA	--	--	--	--	NA
RFI-12-09R	741.97	0.93	--	--	--	--	NA	--	--	--	--	NA
RFI-12-11D	742.09	0.93	--	--	--	--	NA	--	--	--	--	NA
RFI-12-11S	742.17	--	--	--	--	--	NA	--	--	--	--	NA
RFI-12-14	742.15	--	--	--	--	--	NA	--	--	--	--	NA
RFI-12-14R	742.20	--	--	--	--	--	NA	--	--	--	--	NA
RFI-12-15	742.13	--	--	--	--	--	NA	--	--	--	--	NA
RFI-12-21	741.50	--	--	--	--	--	NA	--	--	--	--	NA
RFI-12-22	741.99	0.93	--	--	--	--	NA	--	--	--	--	NA
RFI-12-22R	742.07	0.93	--	--	--	--	NA	--	--	--	--	NA
RFI-12-23	742.21	0.93	--	--	--	--	NA	--	--	--	--	NA
RFI-12-24	742.12	--	--	--	--	--	NA	--	--	--	--	NA
RFI-12-25	741.85	--	--	--	--	--	NA	--	--	--	--	NA
RFI-12-26	742.04	0.93	--	--	--	--	NA	--	--	--	--	NA
RFI-12-28	742.63	0.93	--	--	--	--	NA	--	--	--	--	NA
RFI-12-32	738.61	--	--	--	--	--	NA	--	--	--	--	NA
RFI-12-33	743.66	--	--	--	--	--	NA	--	--	--	--	NA
RFI-12-34	744.02	--	--	--	--	--	NA	--	--	--	--	NA
RFI-12-35	743.83	0.93	--	--	--	--	NA	--	--	--	--	NA
RFI-12-36	743.89	0.93	--	--	--	--	NA	--	--	--	--	NA
RFI-12-38	742.39	0.93	--	--	--	--	NA	--	--	--	--	NA
RFI-12-40	741.47	--	--	--	--	--	NA	--	--	--	--	NA
RFI-12-41	741.56	--	--	--	--	--	NA	--	--	--	--	NA
RFI-16-01	736.10	--	--	--	--	--	NA	--	--	--	--	NA
RFI-16-04	732.27	--	--	--	--	--	NA	--	--	--	--	NA
RFI-16-04R	732.12	--	--	--	--	--	NA	--	--	--	--	NA
RFI-16-07	733.26	--	--	--	--	--	NA	--	--	--	--	NA
RFI-16-08	733.24	0.86	--	--	--	--	NA	--	--	--	--	NA
RFI-16-09	733.39	--	--	--	--	--	NA	--	--	--	--	NA
RFI-16-10	736.09	0.86	--	--	--	--	NA	--	--	--	--	NA
RFI-16-11	736.49	--	--	--	--	--	NA	--	--	--	--	NA
RFI-16-12	735.58	--	--	--	--	--	NA	--	--	--	--	NA
RFI-16-12R	735.56	--	--	--	--	--	NA	--	--	--	--	NA
RFI-16-20	732.35	--	--	--	--	--	NA	--	--	--	--	NA
RFI-16-24	736.39	--	--	--	--	--	NA	--	--	--	--	NA
RFI-16-25	736.14	--	--	--	--	--	NA	--	--	--	--	NA
RFI-17-02	720.27	--	NA	0.00	5.02	715.25	NA	NA	0.00	4.91	715.36	NA
RFI-17-02D	720.36	--	--	--	--	--	NA	NA	0.00	4.62	715.74	NA
RFI-21-04	746.10	--	--	--	--	--	NA	--	--	--	--	NA
RFI-23-01	742.19	--	--	--	--	--	NA	--	--	--	--	NA
RFI-23-01R	741.73	--	--	--	--	--	NA	--	--	--	--	NA
RFI-23-02	740.37	--	--	--	--	--	NA	--	--	--	--	NA
RFI-23-02R	740.08	--	--	--	--	--	NA	--	--	--	--	NA

Table X-1 **Groundwater Level Data:**
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	June 7, 2005					July 2005				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
RFI-36-01	756.63	--	--	--	--	--	NA	--	--	--	--	NA
RFI-36-02	751.96	--	NA	0.00	13.79	738.17	NA	NA	0.00	14.08	737.88	NA
RFI-36-03	751.31	--	NA	0.00	12.11	739.20	NA	NA	0.00	12.53	738.78	NA
RFI-36-04	756.14	0.83	NA	0.00	17.20	738.94	NA	NA	0.00	17.45	738.69	NA
RFI-36-05	755.07	0.83	NA	0.00	16.06	739.01	NA	NA	0.00	16.34	738.73	NA
RFI-36-06	755.29	0.83	16.01	0.53	16.54	738.75	739.19	16.14	1.01	17.15	738.14	738.98
RFI-36-07	753.94	0.83	14.31	1.45	15.76	738.18	739.38	--	--	--	--	NA
RFI-36-08	749.29	0.83	--	--	--	--	NA	8.63	0.01	8.64	740.65	740.66
RFI-36-09	750.78	--	--	--	--	--	NA	NA	0.00	9.59	741.19	NA
RFI-36-10	750.21	--	--	--	--	--	NA	NA	0.00	9.07	741.14	NA
RFI-36-11	752.89	0.83	--	--	--	--	NA	NA	0.00	12.24	740.65	NA
RFI-36-12	753.52	0.83	--	--	--	--	NA	NA	0.00	11.43	742.09	NA
RFI-36-14	750.00	--	--	--	--	--	NA	NA	0.00	7.86	742.14	NA
RFI-36-15	754.47	0.83	--	--	--	--	NA	13.44	5.08	18.52	735.95	740.17
RFI-36-16	754.87	0.83	--	--	--	--	NA	--	--	--	--	NA
RFI-36-17	753.93	--	NA	0.00	15.69	738.24	NA	--	--	--	--	NA
RFI-36-18	753.12	--	NA	0.00	14.57	738.55	NA	NA	0.00	15.06	738.06	NA
RFI-36-19	753.31	--	NA	0.00	14.18	739.13	NA	NA	0.00	14.54	738.77	NA
RFI-36-20	757.01	--	NA	0.00	17.59	739.42	NA	NA	0.00	17.88	739.13	NA
RFI-36-21	754.72	0.83	NA	0.00	17.69	737.03	NA	15.55	1.81	17.36	737.36	738.86
RFI-36-22	754.28	0.83	NA	0.00	16.89	737.39	NA	13.52	3.36	16.88	737.40	740.19
RFI-36-23	754.09	0.83	--	--	--	--	NA	--	--	--	--	NA
RFI-36-24	753.92	0.83	--	--	--	--	NA	--	--	--	--	NA
RFI-36-25R	754.67	--	--	--	--	--	NA	NA	0.00	14.25	740.42	NA
RFI-36-27	755.46	0.83	--	--	--	--	NA	--	--	--	--	NA
RFI-36-29	753.86	0.83	14.02	0.01	14.03	739.83	739.84	14.18	0.01	14.19	739.67	739.68
RFI-36-29R	753.72	0.83	14.35	0.60	14.95	738.77	739.27	14.56	0.86	15.42	738.30	739.01
RFI-36-31	753.51	0.83	--	--	--	--	NA	--	--	--	--	NA
RFI-36-32	756.28	0.83	NA	0.00	17.45	738.83	NA	NA	0.00	17.68	738.60	NA
RFI-36-35	750.05	--	--	--	--	--	NA	NA	0.00	12.18	737.87	NA
RFI-36-36	750.19	--	--	--	--	--	NA	--	--	--	--	NA
RFI-36-37	757.15	--	NA	0.00	17.97	739.18	NA	NA	0.00	18.29	738.86	NA
RFI-36-43	753.26	0.83	--	--	--	--	NA	NA	0.00	12.36	740.90	NA
RFI-36-44	752.45	--	NA	0.00	13.77	738.68	NA	NA	0.00	14.19	738.26	NA
RFI-36-45	752.83	--	NA	0.00	14.35	738.48	NA	NA	0.00	14.75	738.08	NA
RFI-36-46	750.13	--	NA	0.00	11.82	738.31	NA	NA	0.00	12.18	737.95	NA
RFI-36-47	749.26	--	NA	0.00	14.29	734.97	NA	NA	0.00	14.73	734.53	NA
RFI-36-48	757.71	--	NA	0.00	20.27	737.44	NA	NA	0.00	20.74	736.97	NA
RFI-36-49	755.71	0.83	NA	0.00	10.81	744.90	NA	17.08	0.62	17.70	738.01	738.52
RFI-36-51	749.23	--	NA	0.00	15.30	733.93	NA	NA	0.00	11.16	738.07	NA
RFI-36-53	753.25	--	--	--	--	--	NA	NA	0.00	15.80	737.45	NA
RFI-36-54	756.98	--	--	--	--	--	NA	NA	0.00	20.59	736.39	NA
RFI-36-55	750.49	--	--	--	--	--	NA	NA	0.00	13.45	737.04	NA
RFI-36-56	749.97	--	--	--	--	--	NA	NA	0.00	12.39	737.58	NA
RFI-38-04	751.58	--	--	--	--	--	NA	--	--	--	--	NA
RFI-38-05	750.79	--	--	--	--	--	NA	--	--	--	--	NA
RFI-38-06	749.43	--	--	--	--	--	NA	--	--	--	--	NA
RFI-40-01R	--	--	--	--	--	--	NA	--	--	--	--	NA
RFI-40-01R2	734.05	--	NA	0.00	3.71	730.34	NA	NA	0.00	3.20	730.85	NA
RFI-40-02	735.35	0.92	--	--	--	--	NA	--	--	--	--	NA
RFI-40-03	735.33	--	--	--	--	--	NA	--	--	--	--	NA
RFI-40-03R	735.33	--	--	--	--	--	NA	--	--	--	--	NA
RFI-40-04	728.15	--	NA	0.00	11.17	716.98	NA	--	--	--	--	NA
RFI-40-07	729.35	0.92	NA	0	2.87	726.48	NA	NA	0	3.75	725.60	NA
RFI-40-09	731.85	--	NA	0.00	10.77	721.08	NA	NA	0.00	10.45	721.40	NA
RFI-40-10R	735.17	--	--	--	--	--	NA	--	--	--	--	NA
RFI-40-11	730.82	--	NA	0.00	4.45	726.37	NA	--	--	--	--	NA

Table X-1 **Groundwater Level Data:**
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	June 7, 2005					July 2005				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
RFI-40-12R	743.12	--	--	--	--	--	NA	--	--	--	--	NA
RFI-40-13	731.92	--	--	--	--	--	NA	NA	0.00	8.84	723.08	NA
RFI-40-14R	731.93	0.92	NA	0.00	3.57	728.36	NA	NA	0.00	3.10	728.83	NA
RFI-40-16	735.17	--	--	--	--	--	NA	--	--	--	--	NA
RFI-40-17	734.03	--	--	--	--	--	NA	--	--	--	--	NA
RFI-40-18	731.99	--	--	--	--	--	NA	--	--	--	--	NA
RFI-40-20	738.47	--	--	--	--	--	NA	--	--	--	--	NA
RFI-40-25	734.17	--	--	--	--	--	NA	--	--	--	--	NA
RFI-40-26	738.37	--	--	--	--	--	NA	--	--	--	--	NA
RFI-40-27	731.71	--	NA	0.00	9.87	721.84	NA	NA	0.00	8.54	723.17	NA
RFI-44-04	731.89	--	--	--	--	--	NA	--	--	--	--	NA
RFI-44-05	731.97	--	--	--	--	--	NA	--	--	--	--	NA
RFI-44-06R	731.52	--	--	--	--	--	NA	--	--	--	--	NA
RFI-55-01	751.85	--	--	--	--	--	NA	NA	0.00	8.60	743.25	NA
RFI-55-02	752.88	--	--	--	--	--	NA	NA	0.00	10.31	742.57	NA
RFI-55-09	753.75	--	--	--	--	--	NA	NA	0.00	12.00	741.75	NA
RFI-55-10	751.86	--	--	--	--	--	NA	NA	0.00	9.51	742.35	NA
RFI-55-11	751.69	--	--	--	--	--	NA	NA	0.00	8.32	743.37	NA
RFI-55-12	752.26	--	--	--	--	--	NA	NA	0.00	8.75	743.51	NA
RFI-65-01	742.82	--	--	--	--	--	NA	--	--	--	--	NA
RFI-81-02	745.92	--	--	--	--	--	NA	--	--	--	--	NA
RFI-81-03	745.70	--	--	--	--	--	NA	--	--	--	--	NA
RFI-81-08	741.43	--	--	--	--	--	NA	--	--	--	--	NA
RFI-81-09	745.89	--	--	--	--	--	NA	--	--	--	--	NA
RFI-81-11	740.34	--	--	--	--	--	NA	--	--	--	--	NA
RFI-81-12R	742.60	--	--	--	--	--	NA	--	--	--	--	NA
RFI-81-13	744.61	--	--	--	--	--	NA	--	--	--	--	NA
RFI-81-21	753.80	--	--	--	--	--	NA	--	--	--	--	NA
RFI-81-22	742.58	--	--	--	--	--	NA	--	--	--	--	NA
RFI-81-33	736.94	--	--	--	--	--	NA	--	--	--	--	NA
RFI-81-35	743.23	--	--	--	--	--	NA	--	--	--	--	NA
RFI-81-39R	745.77	--	--	--	--	--	NA	--	--	--	--	NA
RFI-81-43	743.76	--	--	--	--	--	NA	--	--	--	--	NA
RFI-81-45	742.87	--	--	--	--	--	NA	--	--	--	--	NA
RFI-81-47	742.38	--	--	--	--	--	NA	--	--	--	--	NA
RFI-81-49	742.71	--	--	--	--	--	NA	--	--	--	--	NA
RFI-81-50	740.60	--	--	--	--	--	NA	--	--	--	--	NA
RFI-81-51	742.35	--	--	--	--	--	NA	--	--	--	--	NA
RFI-83/84-01	741.34	--	--	--	--	--	NA	--	--	--	--	NA
RFI-83/84-02	741.59	--	--	--	--	--	NA	--	--	--	--	NA
RFI-83/84-04	745.51	0.89	--	--	--	--	NA	--	--	--	--	NA
RFI-83/84-06	745.58	0.89	--	--	--	--	NA	--	--	--	--	NA
RFI-83/84-07	746.56	0.88	--	--	--	--	NA	--	--	--	--	NA
RFI-83/84-11	741.61	--	--	--	--	--	NA	--	--	--	--	NA
RFI-83/84-20	745.24	--	--	--	--	--	NA	--	--	--	--	NA
RFI-83/84-25	745.83	--	--	--	--	--	NA	--	--	--	--	NA
RFI-83/84-27	745.72	--	--	--	--	--	NA	--	--	--	--	NA
RFI-83/84-27R	745.84	--	--	--	--	--	NA	--	--	--	--	NA
RFI-83/84-29	742.76	--	--	--	--	--	NA	--	--	--	--	NA
RFI-83/84-44	746.16	0.89	--	--	--	--	NA	--	--	--	--	NA
RFI-83/84-45	746.22	0.89	--	--	--	--	NA	--	--	--	--	NA
RFI-83/84-46	746.38	--	--	--	--	--	NA	--	--	--	--	NA
RFI-83/84-48	746.23	--	--	--	--	--	NA	--	--	--	--	NA
RFI-83/84-49	745.25	0.89	--	--	--	--	NA	--	--	--	--	NA
RFI-83/84-51	742.39	--	--	--	--	--	NA	--	--	--	--	NA

Table X-1 **Groundwater Level Data:**
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	June 7, 2005					July 2005				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
RFI-83/84-53	745.32	--	--	--	--	--	NA	--	--	--	--	NA
RFI-83/84-54	746.41	--	--	--	--	--	NA	--	--	--	--	NA
RFI-84-03S	727.23	--	--	--	--	--	NA	NA	0.00	10.09	717.14	NA
RFI-84-03I	727.13	--	--	--	--	--	NA	NA	0.00	9.80	717.33	NA
RFI-84-03D	727.30	--	--	--	--	--	NA	NA	0.00	10.00	717.30	NA
RFI-84-04I	727.23	--	--	--	--	--	NA	NA	0.00	9.80	717.43	NA
RFI-84-04D	727.08	--	--	--	--	--	NA	NA	0.00	9.65	717.43	NA
RFI-84-05	726.63	--	--	--	--	--	NA	NA	0.00	6.78	719.85	NA
RFI-84-06R	720.12	--	NA	0.00	6.03	714.09	NA	NA	0.00	4.65	715.47	NA
RFI-84-06RD	720.18	--	--	--	--	--	NA	NA	0.00	6.72	713.46	NA
RFI-84-07	727.12	--	--	--	--	--	NA	NA	0.00	8.60	718.52	NA
RFI-84-07D	727.52	--	--	--	--	--	NA	NA	0.00	8.62	718.90	NA
RFI-84-08	727.22	--	--	--	--	--	NA	NA	0.00	10.35	716.87	NA
RFI-84-08D	727.43	--	--	--	--	--	NA	NA	0.00	19.05	708.38	NA
RFI-84-09S	719.43	--	--	--	--	--	NA	NA	0.00	4.35	715.08	NA
RFI-84-09D	719.27	--	--	--	--	--	NA	NA	0.00	5.41	713.86	NA
RFI-84-10S	718.70	--	--	--	--	--	NA	NA	0.00	9.55	709.15	NA
RFI-84-10D	718.64	--	--	--	--	--	NA	NA	0.00	8.64	710.00	NA
RFI-84-11S	721.97	--	--	--	--	--	NA	NA	0.00	3.40	718.57	NA
RFI-85-02R	742.91	0.86	--	--	--	--	NA	--	--	--	--	NA
RFI-85-03	746.21	--	--	--	--	--	NA	--	--	--	--	NA
RFI-85-04	746.00	--	--	--	--	--	NA	--	--	--	--	NA
RFI-85-04R	745.95	--	--	--	--	--	NA	--	--	--	--	NA
RFI-85-05	745.95	--	--	--	--	--	NA	--	--	--	--	NA
RFI-85-06	742.43	0.86	--	--	--	--	NA	--	--	--	--	NA
RFI-85-07	745.97	--	--	--	--	--	NA	--	--	--	--	NA
RFI-85-08	746.74	--	--	--	--	--	NA	--	--	--	--	NA
RFI-86-01	735.80	--	--	--	--	--	NA	--	--	--	--	NA
RFI-86-01R	735.51	--	--	--	--	--	NA	--	--	--	--	NA
RFI-86-01D	735.58	--	--	--	--	--	NA	--	--	--	--	NA
RFI-86-02	735.65	0.87	--	--	--	--	NA	--	--	--	--	NA
RFI-86-03	736.62	0.87	--	--	--	--	NA	--	--	--	--	NA
RFI-86-04	737.29	--	--	--	--	--	NA	--	--	--	--	NA
RFI-86-05	742.47	--	--	--	--	--	NA	--	--	--	--	NA
RFI-86-06D	737.21	--	--	--	--	--	NA	--	--	--	--	NA
RFI-86-06S	737.32	--	--	--	--	--	NA	--	--	--	--	NA
RFI-86-08R	743.25	--	--	--	--	--	NA	--	--	--	--	NA
RFI-86-12	738.11	--	--	--	--	--	NA	--	--	--	--	NA
RFI-86-14	731.80	--	--	--	--	--	NA	--	--	--	--	NA
RFI-86-15	718.03	--	--	--	--	--	NA	--	--	--	--	NA
RFI-86-16	731.51	--	--	--	--	--	NA	--	--	--	--	NA
RFI-86-16R	731.76	--	--	--	--	--	NA	--	--	--	--	NA
RFI-94-02R	727.35	--	--	--	--	--	NA	NA	0.00	8.15	719.20	NA
RFI-94-05	727.48	--	NA	0.00	2.90	724.58	NA	NA	0.00	2.73	724.75	NA
RFI-94-07	720.32	--	NA	0.00	4.12	716.20	NA	NA	0.00	4.03	716.29	NA
RFI-94-08	727.44	--	--	--	--	--	NA	NA	0.00	13.73	713.71	NA
RFI-94-09	719.28	--	--	--	--	--	NA	NA	0.00	7.41	711.87	NA
RFI-94-10	719.00	--	--	--	--	--	NA	NA	0.00	6.25	712.75	NA
RFI-94-11	719.54	--	--	--	--	--	NA	NA	0.00	7.63	711.91	NA
RFI-SS-01	716.07	--	--	--	--	--	NA	--	--	--	--	NA
RFI-SS-02	716.18	0.99	--	--	--	--	NA	--	--	--	--	NA
RFI-SS-03	742.62	0.99	--	--	--	--	NA	--	--	--	--	NA
RFI-SS-04	745.79	0.99	--	--	--	--	NA	--	--	--	--	NA
RFI-SS-05	746.05	0.99	--	--	--	--	NA	--	--	--	--	NA

Table X-1 **Groundwater Level Data:**
2001-2005 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (assumed)	June 7, 2005					July 2005				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
RFI-SS-06	745.94	0.99	--	--	--	--	NA	--	--	--	--	NA
RFI-SS-08	750.98	--	--	--	--	--	NA	--	--	--	--	NA
RFI-SS-09	--	--	--	--	--	--	NA	--	--	--	--	NA
RW-1-P1	751.11	0.92	--	--	--	--	NA	--	--	--	--	NA
RW-1-P2	751.30	0.92	--	--	--	--	NA	--	--	--	--	NA
RW-6-P1	753.39	--	--	--	--	--	NA	--	--	--	--	NA
RW-7-P1	753.23	--	--	--	--	--	NA	--	--	--	--	NA
RW-3A-P1	750.73	--	--	--	--	--	NA	--	--	--	--	NA
RW-3A-P2	750.40	--	--	--	--	--	NA	--	--	--	--	NA
Dort Bridge	722.95	--	--	--	--	--	NA	--	--	--	--	NA
Fifth Bridge	720.33	--	--	--	--	--	NA	--	--	--	--	NA
Hamilton Bridge	722.61	--	--	--	--	--	NA	--	--	--	--	NA
Hamilton Bridge 2005	720.09	--	--	--	--	--	NA	NA	0.00	12.04	708.05	NA

Table X-2

Groundwater Level Data:
2007-2008 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (extrapolated or measured)	October 22 - 24, 2007					September 8 - 11, 2008				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
04-4	NA	--		0.00	6.91	NA	--		0.00	6.62	NA	--
03-105R3	747.76			0.00	8.24	739.52	--		0.00	8.15	739.61	--
03-114R	746.27			--	--	--	--		0.00	11.62	734.65	--
03-3R	746.47	0.9	10.67	2.41	13.08	733.39	735.56	10.40	2.94	13.34	733.13	735.78
04-160	729.13	--		0.00	12.64	716.49	--		0.00	12.60	716.53	--
20-145	749.34	--		0.00	9.15	740.19	--		0.00	9.02	740.32	--
20-160	752.81	0.99		0.00	12.00	740.81	--		0.00	11.80	741.01	--
20-162	753.48	0.99	12.29	0.76	13.05	740.43	741.18	11.97	0.63	12.60	740.88	741.50
20-163R	750.58	0.99	10.44	3.76	14.20	736.38	740.10	10.96	0.01	10.97	739.61	739.62
20-168	753.44	0.99	13.02	2.26	15.28	738.16	740.40	12.83	0.96	13.79	739.65	740.60
20-500R	750.77	--		0.00	9.73	741.04	--		0.00	9.22	741.55	--
20-502	751.29	0.99	10.07	2.78	12.85	738.44	741.19	9.45	2.26	11.71	739.58	741.82
20-503	751.54	0.99	11.06	0.87	11.93	739.61	740.47	10.68	0.67	11.35	740.19	740.85
20-506	751.35	--		0.00	10.00	741.35	--		0.00	9.77	741.58	--
20-FP-10R	NA	--		0.00	7.09	NA			0.00	6.95	NA	
20-FP-11R	744.09	--		0.00	4.50	739.59	--		0.00	4.36	739.73	--
20-FP5	748.82	--		0.00	8.29	740.53	--		0.00	8.10	740.72	--
20-FP-8	748.73	0.99	8.91	0.72	9.63	739.10	739.81	8.84	0.70	9.54	739.19	739.88
20-FP-9R	749.21			0.00	9.13	740.08	--		0.00	8.96	740.25	--
31-5	736.12	--		0.00	6.89	729.23	--		0.00	9.98	726.14	--
31-8	730.26	--		0.00	9.39	720.87	--		0.00	9.32	720.94	--
36 FP2	750.30	0.9	12.58	1.32	13.90	736.40	737.59	11.92	0.14	12.06	738.24	738.37
36 FP3	749.41	0.9	7.92	2.56	10.48	738.93	741.23	10.77	0.48	11.25	738.16	738.59
36 FP4	753.70	0.9		0.00	15.75	737.95	--		0.00	15.08	738.62	--
36 FP6	749.51	0.9		9.01	9.01	740.50	--	9.7	0.85	10.55	738.96	--
36 FP7	750.02	0.9	12.50	3.70	16.20	733.82	737.15	11.49	3.71	15.20	734.82	738.16
36 FP8	748.83	--		0.00	8.41	740.42	--		0.00	7.98	740.85	--
37-RW-NORTH	NA	0.9	10.71	0.13	10.84	NA	--	10.12	0.18	10.30	NA	--
37-RW-SOUTH	NA			0.00	10.90	NA	--		0.00	10.42		--
40-07R2	735.37	0.92	12.32	2.50	14.82	720.55	722.85	11.25	3.50	14.75	720.62	723.84
40-3	737.01	--		0.00	13.64	723.37	--		0.00	12.80	724.21	--
40-302	732.96	--		--	--	--	--		0.00	6.90	726.06	--
40-303R	730.41	--		0.00	12.55	717.86	--		0.00	12.15	718.26	--
40-304	731.11	--		0.00	2.32	728.79	--		0.00	3.22	727.89	--
40-305	731.24			--	--	--	--		0.00	3.90	727.34	--
40-6R	735.00	--		0.00	5.02	729.98	--		0.00	4.67	730.33	--
43-140	750.14	--		0.00	10.21	739.93	--		0.00	10.17	739.97	--
43-161	750.19	0.92	9.45	0.87	10.32	739.87	740.67	9.10	0.01	9.11	741.08	741.09
43-165	749.41	0.92	7.18	1.07	8.25	741.16	742.14	8.20	0.53	8.73	740.68	741.17
43-166	747.97	--		0.00	7.09	740.88	--		0.00	6.75	741.22	--
43-167	748.43	--		0.00	7.72	740.71	--		0.00	7.43	741.00	--
43-242	753.64	--		0.00	12.59	741.05	--		0.00	12.38	741.26	--
55-1	753.43	--		0.00	11.68	741.75	--		0.00	11.40	742.03	--
55-2	753.06	--		0.00	10.95	742.11	--		0.00	10.70	742.36	--
70-101	742.68	0.91	4.34	1.19	5.53	737.15	738.23	4.18	0.99	5.17	737.51	738.41
70-103	743.78	0.91	4.92	1.67	6.59	737.19	738.71	4.76	1.94	6.70	737.08	738.85
70-105	743.58	--		0.00	4.90	738.68	--		0.00	4.78	738.80	--
70-107R	742.80	0.91	5.5	2.40	7.90	734.90	737.08	5.2	2.55	7.75	735.05	737.37
70-163	742.59			--	--	--	--		0.00	4.75	737.84	--
70-165	741.26	--		4.90	4.90	736.36	--		4.59	4.59	736.67	--
84-6R2-D	726.80	--		0.00	5.35	721.45	--		0.00	5.00	721.80	--
84-7-D	727.42	--		0.00	7.35	720.07	--		0.00	6.92	720.50	--
87-FP1	715.79	--		0.00	1.60	714.19	--		0.00	1.47	714.32	--
87-FP4	742.11	--		0.00	21.17	720.94			0.00	21.03	721.08	
87-FPD2	742.05	--		0.00	14.59	727.46	--		0.00	14.99	727.06	--

Table X-2

Groundwater Level Data:
2007-2008 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (extrapolated or measured)	October 22 - 24, 2007					September 8 - 11, 2008				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
87-FPD3	742.05	--		0.00	24.85	717.20	--		0.00	24.71	717.34	--
88-7	742.20	--		0.00	2.20	740.00	--		0.00	5.31	736.89	--
ACSP-B2AR	738.66	--		--	--	--	--		0.00	25.88	712.78	
BD01-01	744.29	--		0.00	24.77	719.52	--		0.00	24.50	719.79	--
MW-00-FP6	740.73	--		0.00	16.58	724.15	--		0.00	16.55	724.18	--
MW-16	713.53			0.00	3.22	710.31	--		0.00	3.93	709.60	--
MW-17	714.54	--		0.00	3.76	710.78	--		0.00	4.93	709.61	--
MW-18	714.33	--		0.00	4.09	710.24	--		0.00	4.00	710.33	--
MW-19	712.00	--		0.00	2.55	709.45	--		0.00	2.35	709.65	--
MW-25	722.38	--		0.00	5.23	717.15	--		0.00	8.40	713.98	--
RFI-02-05	738.88	--		0.00	2.67	736.21	--		0.00	2.71	736.17	--
RFI-02-07	735.06	--		0.00	2.16	732.90	--		0.00			--
RFI-02-08R	736.07	--		0.00	3.52	732.55	--		0.00	7.84	728.23	--
RFI-02-12	738.51	--		0.00	5.22	733.29	--		0.00	5.45	733.06	--
RFI-02-13	731.00	--		0.00	2.00	729.00	--		0.00	1.92	729.08	--
RFI-02-14	738.73	0.95	6.56	6.62	13.18	725.55	731.84	5.75	6.10	11.85	726.88	732.68
RFI-02-24	729.88			0.00	0.42	729.46	--		0.00	1.38	728.50	--
RFI-03-02	742.35	--		0.00	6.39	735.96	--		0.00	6.23	736.12	--
RFI-03-04	746.67	--		0.00	7.65	739.02	--		0.00	7.41	739.26	--
RFI-05-06	752.13	--		0.00	11.71	740.42	--		0.00	11.47	740.66	--
RFI-05-13	754.16	0.92	12.78	3.48	16.26	737.90	741.10	12.55	3.55	16.10	738.06	741.33
RFI-05-14	754.12	0.92		--	--	--	--	12.63	1.87	14.50	739.62	741.34
RFI-07-03	726.74	--		0.00	6.64	720.10	--		0.00	dry		--
RFI-07-08	728.12	--		0.00	12.90	715.22	--		0.00	12.61	715.51	--
RFI-09-04R	725.95	--		0.00	15.10	710.85	--		0.00	14.98	710.97	--
RFI-09-14	724.44			0.00	5.76	718.68	--		0.00	6.10	718.34	--
RFI-09-40R	729.76	0.75	7.23	1.99	9.22	720.54	722.03	6.81	2.84	9.65	720.11	722.24
RFI-09-44	728.22	--		0.00	6.00	722.22	--		0.00	5.85	722.37	--
RFI-09-45R	729.76	--		0.00	6.72	723.04	--		0.00	6.34	723.42	--
RFI-09-46	723.07			0.00	9.03	714.04	--		0.00	8.78	714.29	--
RFI-09-48	719.69			0.00	10.40	709.29	--		0.00	10.23	709.46	--
RFI-09-49R	726.43	--		0.00	15.02	711.41	--		0.00	14.88	711.55	--
RFI-09-52	730.21	--		0.00	8.36	721.85	--		0.00	8.07	722.14	--
RFI-09-53	725.48	--		0.00	10.12	715.36	--		0.00	10.31	715.17	--
RFI-09-56	726.93	--		0.00	5.14	721.79	--		0.00	5.36	721.57	--
RFI-09-57	724.90	--		0.00	5.85	719.05	--		0.00	5.76	719.14	--
RFI-09-58	723.38	--		0.00	5.11	718.27	--		0.00	5.35	718.03	--
RFI-10-24	751.53	--		0.00	11.75	739.78	--		0.00	11.36	740.17	--
RFI-10-26	749.32	--		0.00	8.60	740.72	--		0.00	8.44	740.88	--
RFI-10-28	752.58	--		0.00	13.50	739.08	--		0.00	13.15	739.43	--
RFI-10-29	752.40	--		0.00	13.93	738.47	--		0.00	13.41	738.99	--
RFI-10-33	755.30	--		0.00	13.72	741.58	--		0.00	13.46	741.84	--
RFI-10-35	755.69	--		0.00	15.95	739.74	--		0.00	15.48	740.21	--
RFI-10-36	752.82	--		0.00	13.70	739.12	--		0.00	13.31	739.51	--
RFI-12-01R	741.98	0.93		0.00	5.09	736.89	--		0.00	4.39	737.59	--
RFI-12-02R	742.10	0.93	3.82	2.98	6.80	735.30	738.07	3.09	4.37	7.46	734.64	738.70
RFI-12-07R2	741.95	--		0.00	3.31	738.64	--		0.00	3.20	738.75	--
RFI-12-08 (Replaced)	742.08	0.93	12.21	0.47	12.68	729.40	729.84	10.70	0.31	11.01	731.07	731.36
RFI-12-09R	741.97	0.93	4.64	4.68	9.32	732.65	737.00	4.25	2.35	6.60	735.37	737.56
RFI-12-11D	742.09	0.93	8.02	7.38	15.40	726.69	733.55	7.47	7.48	14.95	727.14	734.10
RFI-12-11S	742.17	--		0.00	5.73	736.44	--		0.00	4.40	737.77	--
RFI-12-14R	742.20	--		0.00	5.30	736.90	--		0.00	4.54	737.66	--
RFI-12-15	742.13	--		0.00	4.61	737.52	--		0.00	4.24	737.89	--
RFI-12-21	741.50	--		0.00	10.10	731.40	--		0.00	9.70	731.80	--
RFI-12-22R	742.07	0.93		0.00	3.88	738.19	--		0.00	3.55	738.52	--

Table X-2

Groundwater Level Data:
2007-2008 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (extrapolated or measured)	October 22 - 24, 2007					September 8 - 11, 2008				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
RFI-12-23	742.21	0.93	8.07	2.52	10.59	731.62	733.96	7.61	3.34	10.95	731.26	734.37
RFI-12-24	742.12	--		0.00	3.40	738.72	--		0.00	3.23	738.89	--
RFI-12-25	741.85	--		0.00	3.78	738.07	--		0.00	3.59	738.26	--
RFI-12-26	742.04	0.93		0.00	4.22	737.82	--		0.00	3.78	738.26	--
RFI-12-32	738.61	--		0.00	2.29	736.32	--		0.00	2.52	736.09	--
RFI-12-33	743.66	--		0.00	5.09	738.57	--		0.00	4.87	738.79	--
RFI-12-34	744.02	--		0.00	5.32	738.70	--		0.00	5.10	738.92	--
RFI-12-35	743.83	0.93	6.22	1.17	7.39	736.44	737.53	5.58	1.37	6.95	736.88	738.15
RFI-12-38	742.39	0.93	5.18	0.74	5.92	736.47	737.16	5.25	0.65	5.90	736.49	737.09
RFI-12-40	741.47	--		0.00	5.26	736.21	--		0.00	5.36	736.11	--
RFI-12-41	741.56	--		0.00	3.70	737.86	--		0.00	3.67	737.89	--
RFI-16-01	736.10	--		--	--	--	--		0.00	6.90	729.20	--
RFI-16-04R	732.12	--		0.00	7.70	724.42	--		0.00	7.42	724.70	--
RFI-16-07	733.26	--		0.00	6.23	727.03	--		0.00	6.10	727.16	--
RFI-16-08	733.24	0.86	6.64	0.59	7.23	726.01	726.52	6.30	0.70	7.00	726.24	726.84
RFI-16-09	733.39	--		0.00	6.12	727.27	--		0.00	5.91	727.48	--
RFI-16-10	736.09	0.86	8.68	0.28	8.96	727.13	727.37	8.05	0.30	8.35	727.74	728.00
RFI-16-12	735.58	--		0.00	8.44	727.14	--		0.00	8.22	727.36	--
RFI-16-20	NA	--	--	--	--	--	--		0.00	6.88	NA	
RFI-16-24	736.39	--		0.00	8.74	727.65	--		0.00	8.14	728.25	--
RFI-17-02	720.27	--		0.00	4.70	715.57	--		0.00	4.82	715.45	--
RFI-17-02D	720.36	--		0.00	4.66	715.70	--		0.00	4.49	715.87	--
RFI-23-01R	741.73	--		0.00	3.53	738.20	--		0.00	3.27	738.46	--
RFI-23-02R	740.08	--		0.00	3.14	736.94	--		0.00	3.33	736.75	--
RFI-36-04	756.14	0.83		0.00	17.82	738.32	--		0.00	17.41	738.73	--
RFI-36-05	755.07	0.83		0.00	17.98	737.09	--		0.00	16.50	738.57	--
RFI-36-06	755.29	0.83	16.52	2.10	18.62	736.67	738.41	16.22	0.93	17.15	738.14	738.91
RFI-36-07	753.99	0.83		--	--	--	--	15.72	2.00	17.72	736.27	737.93
RFI-36-12	753.52	0.83		0.00	11.73	741.79	--		0.00	11.26	742.26	--
RFI-36-13	751.81			0.00	10.83	740.98	--		0.00	10.35	741.46	--
RFI-36-14	750.00	--		0.00	8.61	741.39	--		0.00	8.07	741.93	--
RFI-36-19	753.31			0.00	15.63	737.68	--		0.00	15.08	738.23	--
RFI-36-25R	754.67			--	--	--	--		0.00	14.14	740.53	--
RFI-36-29R	753.72	0.83	15.54	3.10	18.64	735.08	737.65	14.81	3.12	17.93	735.79	738.38
RFI-36-37	757.15	--		0.00	19.35	737.80	--		0.00	18.72	738.43	--
RFI-36-46	750.13	--		0.00	12.59	737.54	--		0.00	12.09	738.04	--
RFI-36-47	749.26	--		0.00	15.01	734.25	--		0.00	14.77	734.49	--
RFI-36-48	757.71	--		--	--	--	--		0.00	20.63	737.08	--
RFI-36-55	750.49	--		0.00	14.00	736.49	--		0.00	13.44	737.05	--
RFI-36-56	749.97	--		0.00	13.02	736.95	--		0.00	12.63	737.34	--
RFI-40-01R2	734.05	--		0.00	3.19	730.86	--		0.00	2.50	731.55	--
RFI-40-02R	735.34	0.83	7.69	1.98	9.67	725.67	727.31	7.47	2.33	9.80	725.54	727.47
RFI-40-03	735.33	--		0.00	7.88	727.45	--		0.00	7.65	727.68	--
RFI-40-04	728.15	--		0.00	3.31	724.84	--		0.00	10.14	718.01	--
RFI-40-07	729.35	0.92		0.00	1.85	727.50	--		0.00	2.05	727.30	--
RFI-40-09	731.85	--		0.00	9.61	722.24	--		0.00	8.95	722.90	--
RFI-40-10R	735.17	--		0.00	6.94	728.23	--		0.00	6.64	728.53	--
RFI-40-12R	743.12	0.92	9.70	0.02	9.72	733.40	733.42	8.62	0.88	9.50	733.62	734.43
RFI-40-13	731.92	--		0.00	9.30	722.62	--		0.00	7.04	724.88	--
RFI-40-15	732.18	--		0.00	2.48	729.70	--		0.00	2.50	729.68	--
RFI-55-01	751.85	--		0.00	8.84	743.01	--		0.00	8.36	743.49	--
RFI-55-02	752.88	--		0.00	10.59	742.29	--		0.00	10.20	742.68	--
RFI-55-12	752.26			0.00	8.87	743.39	--		0.00	8.55	743.71	--
RFI-81-02	745.92	--		--	--	--	--		0.00	14.91	731.01	--
RFI-81-03	745.70	--		0.00	14.64	731.06	--		0.00	14.63	731.07	--

Table X-2

Groundwater Level Data:
2007-2008 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (extrapolated or measured)	October 22 - 24, 2007					September 8 - 11, 2008				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
RFI-81-08	741.43	--		0.00	9.01	732.42	--		0.00	8.69	732.74	--
RFI-81-09	745.89	--		--	--	--	--		0.00	12.98	732.91	--
RFI-81-21	753.80	--		--	--	--	--		0.00	14.86	738.94	--
RFI-81-33	736.94	--		0.00	5.36	731.58	--		0.00	4.72	732.22	--
RFI-81-35	743.23	--		0.00	12.62	730.61	--		0.00	13.86	729.37	--
RFI-81-45	742.87	--		0.00	6.45	736.42	--		0.00	6.01	736.86	--
RFI-81-50	740.60	--		0.00	4.64	735.96	--		0.00	4.25	736.35	--
RFI-81-51	742.35	--		0.00	13.31	729.04	--		0.00	13.17	729.18	--
RFI-83/84-01	741.34	--		0.00	1.44	739.90	--		0.00	3.33	738.01	--
RFI-83/84-29	742.76	--		0.00	12.67	730.09	--		0.00			--
RFI-83/84-54	746.41	--		0.00	8.39	738.02	--		0.00	8.27	738.14	--
RFI-84-03S	727.23	--		0.00	9.41	717.82	--		0.00	9.32	717.91	--
RFI-84-04D	727.08	--		0.00	9.26	717.82	--		0.00	9.01	718.07	--
RFI-84-04I	727.23	--		0.00	9.49	717.74	--		0.00	9.15	718.08	--
RFI-84-05	726.63	--		0.00	4.60	722.03	--		0.00	6.16	720.47	--
RFI-84-06R	720.12	--		0.00	6.70	713.42	--		0.00	4.60	715.52	--
RFI-84-06RD	720.18	--		0.00	6.72	713.46	--		0.00	6.71	713.47	--
RFI-84-07	727.12	--		0.00	7.92	719.20	--		0.00	7.52	719.60	--
RFI-84-08	727.22	--		0.00	9.46	717.76	--		0.00	9.62	717.60	--
RFI-84-09D	719.27	--		0.00	8.36	710.91	--		0.00	8.41	710.86	--
RFI-84-09S	719.43	--		0.00	9.46	709.97	--		0.00	9.26	710.17	--
RFI-84-11S	721.97	--		0.00	3.61	718.36	--		0.00	3.61	718.36	--
RFI-85-02R	742.91	0.86		0.00	13.63	729.28	--		0.00	11.78	731.13	--
RFI-85-04R	745.95	--		0.00	14.35	731.60	--		0.00	18.61	727.34	--
RFI-85-05	745.95	--		0.00	20.97	724.98	--		0.00	20.81	725.14	--
RFI-86-01R	735.51	--		0.00	21.60	713.91	--		0.00	21.37	714.14	--
RFI-86-02	735.65	0.87	8.28	0.00	11.82	723.83	726.91	8.10	0.00	8.11	727.54	727.55
RFI-86-03	736.62	0.87	7.85	0.00	8.33	728.29	728.71	7.37	0.00	7.41	729.21	729.24
RFI-86-06D	737.21	--		0.00	21.60	715.61	--		0.00	22.10	715.11	--
RFI-86-06S	737.32	--		0.00	12.32	725.00	--		0.00	12.00	725.32	--
RFI-86-08R	743.25	--		--	--	--	--		0.00	10.72	732.53	--
RFI-86-16R	731.76	--		0.00	16.35	715.41	--		0.00	16.12	715.64	--
RFI-94-08	727.44	--		0.00	13.96	713.48	--		0.00	13.86	713.58	--
RFI-94-11	719.54	--		0.00	6.71	712.83	--		0.00	8.81	710.73	--
RW-05 North	NA	--	13.30	2.11	15.41	NA	--	13.13	1.44	14.57	NA	--

Table X-3 **Groundwater Level Data:**
2009 Monitoring Event
RACER Trust, Buick City Site, Flint, Michigan

Well ID	Reference Point Elevation (feet)	LNAPL Density (extrapolated or measured)	September 22 - 25, 2009				
			Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
20-100	750.80	--	--	--	8.78	742.02	--
20-145	749.34	--	--	--	9.00	740.34	--
20-165	749.97	--	--	--	10.66	739.31	--
20-500R	750.77	--	--	--	8.6	742.17	--
20-501	750.63	--	--	--	8.28	742.35	--
20-506	751.35	--	--	--	9.53	741.82	--
20-FP-10R	NA	--	--	--	6.56	NA	--
20-FP-11R	744.09	--	--	--	4.08	740.01	--
20-FP-9R	749.21	--	--	--	8.30	740.91	--
31-8	730.26	--	--	--	9.47	720.79	--
43-166	747.97	--	--	--	7.01	740.96	--
43-167	748.43	--	--	--	7.58	740.85	--
43-168	750.10	--	--	--	10.89	739.21	--
70-164	742.37	--	--	--	Dry at 4.55	NA	--
70-165	741.26	--	--	--	4.55	736.71	--
RFI-02-14	738.73	0.83	5.35	6.88	12.23	726.50	732.21
RFI-02-15	738.74	0.83	6.11	5.79	11.90	726.84	731.65
RFI-02-17	738.67	0.83	--	--	5.76	732.91	--
RFI-02-18	738.69	0.83	--	--	5.75	732.94	--
RFI-02-19	738.54	0.83	6.06	2.49	8.55	729.99	732.06
RFI-03-04	746.67	--	--	--	5.86	740.81	
RFI-09-09	728.20	--	--	--	6.51	721.69	--
RFI-09-44	728.22	--	--	--	5.92	722.30	--
RFI-09-45R	729.76	--	--	--	7.10	722.66	--
RFI-09-52	730.21	--	--	--	8.41	721.80	--
RFI-09-53	725.48	--	--	--	7.83	717.65	--
RFI-17-02D	720.36	--	--	--	5.25	715.11	--
RFI-36-07	753.99	0.83	13.74	0.94	14.68	739.31	740.09
RFI-36-09	750.78	--	--	--	8.81	741.97	--
RFI-36-13	751.81	--	--	--	10.36	741.45	--
RFI-36-14	750.00	--	--	--	7.98	742.02	--
RFI-36-19	753.31	--	--	--	14.27	739.04	--
RFI-36-37	757.15	--	--	--	17.98	739.17	--
RFI-81-45	742.87	--	--	--	5.70	737.17	--
RFI-81-50	740.60	--	--	--	4.45	736.15	--
RFI-81-51	742.35	--	--	--	12.75	729.60	--
RFI-84-12	NA	--	--	--	8.62	NA	--

Table X-4 **Groundwater Level Data:**
2010 - 2013 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

	2010 Data			2011 Data			2012 Data			2013 Data		
Monitoring Well ID Number	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**
87-FP1	NP	1.40	6.20	NP	1.85	6.20	NP	1.35	6.20	Could Not Find		
RFI-02-22	NP	1.95	15.12	NP	1.06	15.10	NP	0.82	15.00	NP	0.00	15.10
RFI-40-07	NP	2.40	18.70	NP	3.00	18.81	NP	1.83	18.72	NP	1.29	18.70
RFI-03-03	NP	2.85	11.90	NP	3.02	11.90	NP	1.97	11.70	NP	1.61	11.70
RRI-02-08	NP	2.97	13.59									
40-304	3.02	3.03	8.40	3.39	3.40	8.29	NP	3.30	8.00	NP	2.92	8.30
MW-19		3.20	60.40									
RFI-40-11		3.62	11.90									
RFI-83/84-07	NP	3.72	11.75	9.58	12.11	17.62	6.20	11.43	17.60	7.67	8.70	17.60
70-109	NP	3.85	10.80	NP	3.33	10.80	NP	3.31	10.70	NP	2.19	10.70
RFI-12-41	NP	3.90	11.82	NP	3.22	11.92						
RFI-12-41	NP	3.90	11.82	Not found with GPS, possibly destoyed by Demo??			NP	3.34	11.83	NP	2.80	11.70
RFI-12-24	NP	3.91	15.20	NP	4.61	15.20	NP	4.61	15.17	NP	3.69	15.20
RFI-23-02R	NP	3.96	13.88	NP	2.99	13.85						
RFI-12-07R2	3.99	4.00	12.74	NP	4.33	12.82	NP	5.15	19.79	NP	4.62	12.75
MW-16		4.00	57.00									
04-1	NP	4.04	7.12	NP	3.71	13.75						
RFI-84-11S	NP	4.05	12.65	NP	3.90	12.20	NP	3.83	13.00	NP	3.17	12.70
RFI-12-22R	NP	4.27	12.62	NP	5.10	12.75	5.40	7.97	13.00	NP	4.58	12.63
RFI-12-25	NP	4.30	16.51	NP	5.09	16.50	5.17	5.18	17.00	NP	4.38	16.50
RFI-12-33	NP	4.51	13.79	NP	6.25	13.80	NP	6.56	13.79	NP	6.14	13.80
RFI-12-11S	4.55	4.56	14.56	NP	4.67	14.50	NP	4.76	14.58	NP	4.66	14.57
RFI-16-08	4.05	4.60	10.29	7.72	8.19	12.24						
40-305	4.61	4.62	9.92							NP	3.73	10.00
RFI-12-26	4.65	4.67	19.20	NP	5.09	19.25	NP	5.16	19.18	NP	4.13	19.20
RFI-17-02D	NP	4.70	25.10	NP	4.72	25.00	NP	4.62	24.00	NP	4.41	24.95
MW-18		4.85	56.20									
RFI-81-50	NP	4.95	12.90	NP	4.47	12.90	NP	4.11	13.00	NP	2.75	12.80
MW-17		5.00	52.60									
RFI-12-15	5.08	5.09	17.72	NP	5.59	17.70	NP	5.73	17.68	NP	4.91	17.70
RFI-02-16	5.09	5.10	17.85	5.33	5.34	18.02	NP	4.74	17.83	NP	4.00	18.00
84-6R2D	NP	5.12	34.62	NP	5.11	35.11	NP	5.04	34.36	NP	3.11	34.66
40-6R	NP	5.18	9.53	NP	5.87	9.59						
70-165	NP	5.20	9.90	NP	4.55	10.00	NP	4.21	10.00	NP	2.27	9.90
RFI-17-02	NP	5.20	13.65	NP	5.30	13.65	NP	5.08	14.00	NP	8.41	24.93
70-108R	NP	5.25	15.70	NP	4.97	15.75	NP	4.13	15.50	NP	2.71	15.40
RFI-12-01	5.25	5.26	14.59									

Table X-4 **Groundwater Level Data:**
2010 - 2013 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

	2010 Data			2011 Data			2012 Data			2013 Data		
Monitoring Well ID Number	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**
RFI-02-23	5.28	5.29	14.94	5.45	5.46	15.06	NP	4.84	14.93	NP	4.13	15.00
RFI-02-18	5.33	5.34	13.28	NP	5.58	13.39	4.88	4.89	13.00	NP	4.06	13.30
RFI-40-06R	5.49	5.50	9.53									
RFI-02-17	5.51	5.51	17.98	NP	5.61	18.16	NP	5.16	17.95	Np	4.55	18.00
RFI-09-58		5.52	15.65									
88-7	NP	5.60	14.75	NP	5.98	14.53	NP	5.32	14.70	NP	4.38	14.70
RFI-09-56	NP	5.65	10.40	NP	5.79	10.45	NP	4.89	10.44	NP	4.21	10.45
RFI-09-44	NP	5.70	14.70	NP	5.81	14.75	NP	5.40	14.75	NP	5.29	14.75
RFI-81-35	NP	5.70	13.70	Not accessible in Demo Area			NP	12.53	19.50	NP	11.85	19.30
RFI-02-12	5.72	5.73	13.81	NP	5.91	13.87	NP	5.17	13.69	NP	4.56	14.00
RFI-12-14R	5.78	5.79	12.82	NP	5.00	12.72	NP	4.83	12.74	NP	4.65	13.00
70-101	4.70	5.80	11.80	4.30	5.52	11.90	3.81	10.25	11.80	2.22	2.85	11.80
RFI-12-34	NP	5.89	15.73	NP	6.71	15.75	NP	7.14	15.72	NP	6.89	15.70
RFI-84-06R	NP	5.90	12.20	NP	5.94	12.20	NP	5.41	13.00	NP	3.51	25.00
31-4D	5.98	6.00	15.70	NP	6.40	15.60	NP	5.42	15.56	NP	3.98	15.60
RFI-12-27	6.05	6.06	13.53	NP	0.00	13.65	NP	0.81	13.65	NP	0.70	13.75
MW-26		6.10	7.25									
40-2	6.1	6.11	9.59									
70-100	NP	6.15	25.30	NP	5.84	25.25	NP	5.53	25.30	NP	4.83	25.00
31-4S	NP	6.15	11.75	NP	6.62	11.75	NP	5.46	11.44	NP	3.68	11.70
70-105	NP	6.20	10.80	NP	5.37	8.55	NP	4.87	11.00	NP	2.13	8.60
RFI-84-05	NP	6.25	17.80	NP	6.19	18.00	NP	5.86	17.60	NP	5.13	17.75
RFI-09-57	NP	6.40	12.80	NP	6.00	12.91	NP	4.13	12.76	NP	1.99	12.80
RFI-03-04	NP	6.40	14.00	NP	6.27	14.00	NP	6.65	14.00	NP	5.45	13.90
RFI-09-45R	NP	6.40	13.60	NP	6.71	13.65	NP	5.90	13.65	NP	4.46	13.65
RFI-03-04	NP	6.40	14.00									
RFI-09-14		6.44	15.90									
RFI-16-09	6.52	6.53	9.08	NP	7.37	9.14						
RFI-81-45	NP	6.55	12.50	NP	5.15	12.60	Couldn't Locate					
RFI-83/84-11	NP	6.80	14.95	Found well location, but dug into well & could not find j-plug or PVC well			Couldn't Locate					
43-166	NP	6.82	14.70	NP	6.71	14.72	NP	5.67	12.50	NP	4.71	12.50
MW-23		6.85	9.25									
RFI-40-20	6.86	6.87	12.92	NP	7.19	12.95	6.72	6.73	12.92	NP	6.58	13.00
RFI-03-02	NP	6.90	14.40	Under debris pile.								
20-FP10R	NP	6.98	13.95	NP	6.59	13.80	NP	6.38	13.50	NP	5.03	13.50
RFI-12-35	4.66	7.19	14.81	5.55	6.97	14.75	5.25	5.86	14.50	3.94	5.49	14.45

Table X-4 **Groundwater Level Data:**
2010 - 2013 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

	2010 Data			2011 Data			2012 Data			2013 Data		
Monitoring Well ID Number	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**
RFI-40-10R	7.22	7.23	14.95	NP	7.42	14.59	NP	6.95	14.32	NP	6.58	14.50
70-107	NP	7.30	20.20	NP	6.62	20.20	NP	6.27	20.10	NP	5.19	20.00
RFI-86-03		7.30	14.90	7.60	7.63	14.97	NP	6.85	15.00	NP	6.00	14.80
RFI-84-06RD	NP	7.32	21.53	NP	7.43	21.59	NP	6.80	22.00	NP	3.61	24.94
RFI-81-43	NP	7.40	12.25	NP	6.64	12.25	NP	6.20	12.20	NP	4.22	12.10
84-7D	NP	7.40	33.55	NP	6.78	33.83	NP	7.43	33.33	NP	6.59	33.55
RFI-09-47	6.51	7.42	16.20	6.85	8.87	16.29	6.47	7.93	16.50	NP	7.37	16.26
43-167	NP	7.45	14.85	NP	7.11	14.80	NP	6.25	14.75	NP	5.42	14.70
31-3	NP	7.45	17.75	NP	9.18	17.65	NP	6.07	17.46	NP	4.43	17.65
RFI-84-04I	NP	7.55	33.70	NP	9.65	34.06	NP	8.20	33.00	NP	8.72	33.67
RFI-12-09R	4.36	7.64	12.68	4.55	6.89	12.70	4.52	9.94	13.00	3.95	12.80	12.80
RFI-02-08R	NP	7.74	13.58	NP	8.22	13.60	NP	4.86	13.55	NP	3.83	13.50
20-144	NP	7.85	12.35	NP	7.75	12.80	NP	7.15	12.24	NP	6.11	13.60
RFI-16-04R	7.85	7.86	16.02	8.10	8.11	16.19	NP	7.89	16.01	NP	7.53	16.00
RFI-84-07S	NP	7.90	21.75	NP	7.97	21.98	NP	7.71	12.55	NP	7.21	21.72
RFI-16-01	7.96	7.97	13.74	NP	8.24	13.75	NP	7.40	13.48	NP	6.77	13.70
31-7	7.35	8.00	15.65	7.23	8.37	15.84	6.84	7.65	15.90	NP	6.92	15.70
RFI-86-02		8.00	16.70	8.13	8.80	16.70	8.00	--	--			
RFI-44-05	NP	8.01	17.94	NP	8.09	18.00	NP	7.51	18.00	NP	6.55	18.00
RFI-16-20	8.01	8.02	10.82	NP	8.96	10.85						
RFI-40-03	8.18	8.19	15.76	NP	8.31	15.85	NP	8.00	15.54	NP	7.81	15.80
31-1	NP	8.20	20.20	NP	8.58	20.12	NP	7.57	19.93	NP	6.54	20.20
RFI-94-11		8.23	11.15	NP	8.75	16.08	NP	7.96	18.00	NP	7.72	15.80
RFI-16-12	8.23	8.24	14.52	NP	8.43	14.54						
70-107R	5.90	8.30	12.65	5.12	7.29	12.59	4.40	9.10	12.70	2.72	5.05	12.70
43-165	6.75	8.30	15.60	6.70	8.02	15.50	6.56	--	15.55	5.81	6.38	15.60
RFI-09-52	NP	8.30	14.70	NP	8.12	14.70	NP	7.85	14.71	NP	7.61	14.70
RFI-30-13		8.57	18.63									
RFI-40-13	NP	8.57	18.63									
RFI-55-01	NP	8.60	19.60	NP	8.23	15.82	NP	8.19	17.60	NP	7.90	15.60
RFI-10-26	NP	8.68	14.75	NP	7.63	14.75	NP	7.96	14.75	NP	6.30	14.70
RFI-84-12		8.70	18.80	NP	8.83	18.80	NP	8.23	18.00	NP	8.39	18.79
RFI-81-08	NP	8.75	17.30	NP	9.79	17.25	NP	8.10	17.30	NP	7.51	17.20
20-FP9	NP	8.80	14.75	NP	8.30	14.75	NP	8.12	14.80	NP	6.30	14.70
20-145	NP	8.82	12.95	Dry @ 3.80 Feet - (potential blockage?)								
MW-25		8.85	9.50									
43-103	NP	8.86	13.65	NP	8.51	13.74	NP	7.73	13.65	NP	7.16	13.50

Table X-4 **Groundwater Level Data:**
2010 - 2013 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

	2010 Data			2011 Data			2012 Data			2013 Data		
Monitoring Well ID Number	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**
20-500R	NP	8.90	13.80	NP	8.03	15.92	NP	7.45	17.40	NP	4.20	17.40
RFI-09-46	NP	9.13	14.68	NP	9.09	14.82	NP	8.84	14.43	NP	8.62	15.00
RFI-40-09	NP	9.20	18.70	NP	9.65	18.70	NP	7.73	18.69	NP	7.20	18.80
RFI-02-19	5.75	9.23	17.15	5.85	7.85	17.28	5.65	7.25	17.00	5.26	5.81	16.90
RFI-16-24	9.22	9.23	15.69	9.72	9.73	15.89						
RFI-16-10	9.17	9.30	12.67	9.87	10.15	12.71						
31-8	NP	9.32	14.65	9.04	9.05	14.82	NP	7.97	14.70	NP	8.83	14.70
RFI-84-04D	NP	9.40	47.25	9.51	9.52	47.90	NP	9.16	46.91	NP	8.56	47.20
RFI-40-26	9.47	9.48	16.82	9.59	9.60	16.75	NP	8.82	16.88	NP	8.78	17.00
RFI-84-03S	NP	9.60	21.25	NP	9.74	21.45	NP	9.44	20.96	NP	8.89	21.23
03-105R3	NP	9.60	12.52	NP	9.98	12.60						
RFI-84-8S	NP	9.80	20.00	NP	9.72	20.15	NP	9.70	20.00	NP	9.29	20.00
RFI-10-07	NP	9.85	16.70	NP	8.65	16.83	NP	8.77	16.70	NP	6.17	16.60
RFI-10-07	NP	9.85	16.70							NP	6.17	16.60
43-140	NP	9.90	14.70	NP	9.82	14.27						
20-506	NP	10.00	14.60	NP	9.31	14.75	NP	0.70	6.10	NP	NA	1.00
RFI-84-09D	NP	10.10	29.05	NP	9.95	29.05	NP	9.21	29.05	NP	9.08	29.05
RFI-36-13	NP	10.15	17.15	NP	9.50	17.31	NP	9.34	17.10	NP	6.65	17.00
31-5	NP	10.15	13.70	NP	10.42	13.82	NP	9.96	13.45	NP	8.36	13.70
20-FP8	8.32	10.22	13.05	7.90	9.63	13.20	7.71	9.42	13.50	NP	6.21	13.50
RFI-55-02	NP	10.26	19.70	NP	10.03	19.88	NP	9.76	19.70	NP	8.89	19.60
RFI-84-09S	NP	10.30	14.50	NP	10.39	14.50	NP	9.64	15.00	NP	9.11	14.55
RFI-02-15	5.29	10.35	17.72	5.51	9.62	17.83	5.10	13.39	17.90	4.08	12.18	17.80
37-RW-NORTH	10.30	10.40	17.20	9.60	10.00	17.12	9.10	--	17.00	6.05	6.10	16.30
RFI-40-04	NP	10.60	31.60	NP	10.49	31.50	NP	10.20	31.35	NP	9.67	31.55
03-03R	NP	10.65	13.20	Dry @ 7.00 Feet - (potential blockage?)			Couldn't Find					
55-2	NP	10.70	15.75	NP	10.50	15.91	NP	10.07	15.80	NP	9.63	15.60
37-RW-SOUTH	NP	10.80	14.00	9.60	10.00	14.22	NP	9.64	13.90	Could Not Find		
RFI-09-53	NP	11.15	15.80	NP	9.33	14.94	NP	10.03	15.00	NP	10.74	14.80
20-503	10.72	11.20	15.10	10.01	10.33	15.65	9.89	10.12	15.05	NP	7.61	15.40
RFI-81-49	NP	11.30	12.85	NP	10.90	13.00	NP	10.93	12.90	NP	9.85	12.80
RFI-05-06	NP	11.45	19.10	NP	11.22	19.00				Could Not Find		
55-1	NP	11.45	15.85	NP	11.30	15.98	Couldn't Locate					
RFI-40-02R	7.65	11.49	15.55	7.83	10.72	16.71	7.55	8.40	19.03	6.61	7.79	19.30
RW-3	NP	11.60	21.00	NP	9.18	>100	NP	7.90	22.40	6.74	7.00	21.00
40-4	NP	11.66	14.70									
20-160	NP	11.75	14.90	Not accessible in Demo Area								

Table X-4 **Groundwater Level Data:**
2010 - 2013 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

	2010 Data			2011 Data			2012 Data			2013 Data		
Monitoring Well ID Number	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**
RFI-10-24	NP	11.85	18.45	NP	10.75	18.60	NP	11.39	18.00	NP	9.32	18.30
RFI-86-06S	NP	11.95	14.10	NP	12.10	14.10	NP	22.42	24.20	NP	11.38	14.20
RFI-09-48	NP	12.10	17.55	NP	12.03	17.72	NP	11.13	18.00	NP	10.67	17.60
OW-5	NP	12.13	27.25	NP	7.82	19.11	NP	7.28	18.40	NP	5.63	18.40
40-303R	12.12	12.13	32.64									
GM-9	NP	12.20	27.30	NP	11.71	27.64	NP	11.58	27.30	NP	10.69	27.30
RFI-12-02/02R	3.96	12.41	19.20	4.51	9.86	19.25	7.20	13.11	19.00	4.30	4.92	19.27
RW-1	12.30	12.45	22.28	10.02	10.52	>100	10.86	12.51	23.10	7.91	8.22	22.90
RFI-07-08	NP	12.50	19.82	NP	12.33	19.71	NP	12.00	19.90	NP	10.89	19.80
38-120	NP	12.54	17.60	NP	12.88	17.77	NP	11.84	17.50	NP	10.86	17.50
20-502	9.40	12.55	13.77	8.65	11.85	14.00	8.45	10.90	13.00	5.63	9.40	13.00
04-160	NP	12.66	21.09	NP	12.67	21.35	NP	12.35	20.58	NP	11.88	21.70
RFI-12-08R	11.55	12.71	19.13	9.22	10.11	19.00	8.68	10.93	20.00	7.40	10.82	19.90
RFI-05-14	12.52	12.75	14.80	Covered by debris			11.39	13.92	16.30	9.90	15.29	16.40
RFI-36-46	NP	12.80	19.20	NP	11.35	19.82	NP	11.58	19.60	NP	9.55	22.00
20-163R	9.10	12.80	17.46	9.18	11.43	17.50	Obstruction					
RFI-12-23	7.44	12.92	17.90	8.38	11.69	17.95	7.58	9.46	18.00	6.80	9.00	18.00
20-168	NP	12.95	17.52	Not accessible in Demo Area			NP	11.52	17.50	10.05	10.19	17.40
RFI-81-51	NP	13.00	19.70	NP	12.92	18.10	NP	11.98	17.10	NP	12.72	20.00
RFI-38-06	NP	13.11	21.90	NP	13.15	22.10	NP	13.11	21.90	NP	12.09	21.80
RFI-83/84-29	NP	13.20	16.70	NP	12.93	16.86	NP	11.64	16.80	NP	10.69	16.70
40-3	NP	13.21	20.75	NP	13.83	20.72						
RFI-05-05R		13.24	27.15									
OW-3S	NP	13.29	15.25	NP	12.50	15.75	NP	13.56	15.50	NP	8.18	15.10
GM-3S		13.29	19.25									
RFI-02-14	5.95	13.32	17.70	5.18	11.32	17.86	5.20	9.45	17.90	4.65	7.00	18.00
36-101	NP	13.58	17.55	NP	12.50	17.80	NP	12.53	17.60	NP	11.02	17.60
GM-10	NP	13.60	43.70	NP	13.10	43.55	NP	12.97	43.00	NP	12.07	43.50
GM-3	NP	13.70	40.35	NP	12.89	41.03	NP	12.74	40.60	NP	11.83	40.40
36-FP2	12.24	13.80	17.68	10.50	11.72	17.82	11.00	12.20	17.70	8.46	10.43	17.70
RFI-10-36		13.80	16.10	Inacessible - covered by debris from City of Flint								
RFI-81-39R	NP	13.96	19.45									
RFI-10-33		14.05	20.10	NP	12.91	20.28	NP	13.5	20.07	NP	11.3	20
RFI-40-14R	NP	14.08	22.72	NP	14.66	22.69	7.19	17.79	22.50	5.68	16.60	22.50
RFI-10-29		14.10	20.80	NP	12.84	21.00	NP	15.42	16.60	NP	11.08	20.60
RFI-94-08	NP	14.23	24.50	NP	14.66	24.50	NP	14.00	24.58	NP	13.36	24.55
36-FP6	8.65	14.40	14.40	Under gravel.								

Table X-4 **Groundwater Level Data:**
2010 - 2013 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

	2010 Data			2011 Data			2012 Data			2013 Data		
Monitoring Well ID Number	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**
RFI-81-03	NP	14.80	18.60	NP	13.99	18.35	NP	11.82	12.00	No well in vault		
40-07R2	11.70	14.80	22.66	12.47	14.86	22.85	11.23	14.21	22.50	8.13	18.83	22.50
RFI-40-07R2	11.69	14.80	22.65							8.13	14.83	22.50
RFI-40-07R	11.70	14.80	22.66									
36-FP7	11.65	15.10	NA	9.79	14.80	17.24	10.28	14.25	17.00	7.51	9.15	17.20
RFI-09-49R	NP	15.10	19.80	NP	14.80	19.75	NP	14.86	19.73	NP	14.45	19.85
RFI-81-02	NP	15.20	20.65	Not accessible in Demo Area			NP	11.00	20.60	NP	10.25	20.50
RFI-09-40R	6.80	15.25	18.80	7.03	9.37	16.73	6.95	8.01	17.00	7.26	7.53	16.80
RFI-09-04R	NP	15.25	18.80	NP	15.00	18.80	NP	14.99	19.00	NP	14.71	18.75
07-01	NP	15.40	17.45	NP	8.42	14.50	NP	14.32	15.50	NP	8.76	14.22
RFI-36-19		15.55	21.45	NP	13.88	21.74	NP	14.54	21.5	NP	12.35	21.35
BD01-04	NP	15.98	20.70	NP	15.22	20.89	NP	15.57	20.41	NP	12.80	20.70
RFI-12-11D	7.63	16.01	24.99	7.85	13.67	24.75	5.72	15.34	23.00	6.62	18.41	22.80
RFI-86-14	NP	16.01	16.79	NP	Dry	13.80						
RFI-10-35		16.10	20.10	NP	14.92	20.31	NP	15.68	20.00	NP	13.52	20.00
RFI-86-16R	NP	16.40	20.20	NP	16.22	20.25	NP	15.79	20.00	NP	15.25	20.25
RFI-05-13	12.55	16.40	16.35	Covered by debris			Obstruction					
MW-00-FP6	NP	16.60	18.00	NP	16.52	18.00	NP	16.54	18.10	NP	16.50	18.00
RFI-85-04R	NP	18.62	26.15	NP	18.60	26.10	NP	18.26	26.30	NP	20.69	23.80
RFI-36-20		18.95	24.95	NP	Blockage at 17.15 feet	17.00	No Access Agreement			No Access Agreement		
RFI-85-05	NP	20.95	23.80	NP	20.90	23.90	NP	20.85	24.00	NP	20.59	21.60
RFI-36-48		21.50	29.55	NP	20.60	29.94	NP	11.58	19.70	NP	18.30	20.40
GM-6	NP	22.25	65.00	NP	21.70	63.75	NP	21.61	68.80	NP	20.72	69.00
RFI-86-06D	NP	22.40	24.10	NP	22.25	24.15	NP	11.79	14.20	Could Not Find		
GM-12	NP	22.79	37.35	NP	22.10	37.35	NP	22.03	37.40	NP	21.36	37.40
GM-8	NP	22.95	44.00	NP	22.21	43.50	NP	22.13	43.90	NP	21.44	44.20
GM-5	NP	24.20	60.60	NP	23.70	61.00	NP	23.60	61.20	NP	22.72	61.50
87-FPD3	NP	24.60	45.95	NP	25.03	46.41	NP	24.58	46.00	NP	24.31	46.00
GM-4	NP	25.20	80.70	NP	24.80	80.70	NP	24.68	81.50	NP	23.80	82.30
GM-7	NP	26.35	60.70	NP	25.90	60.30	NP	25.70	50.40	NP	24.75	50.80
87-FPD2	NP	27.75	34.15	NP	15.70	18.00	NP	27.61	34.30	NP	27.31	34.20
87-RDP2		27.75	34.14									
Hamilton Avenue Bridge	-	-	-	-	15.30	-						
RFI-36-56		DRY	12.80	NP	11.73	19.40	NP	12.25	19.20	NP	10.07	12.50
RFI-05-08	NP	DRY	13.70	NP	12.72	13.80	NP	13.35	13.70	NP	11.30	13.60

Table X-4 **Groundwater Level Data:**
2010 - 2013 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

	2010 Data			2011 Data			2012 Data			2013 Data		
Monitoring Well ID Number	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**
RFI-12-42				NP	2.00	14.53	NP	2.73	15.00	NP	2.28	14.70
20-FP12				NP	3.00	9.25	NP	2.78	8.9	NP	1.72	9
RFI-94-05				NP	3.05	15.45	NP	2.76	15.44	NP	2.28	13.40
RFI-83/84-01				NP	3.13	11.81	NP	3.12	11.70	NP	2.31	11.60
RFI-02-05R				NP	4.25	7.80	NP	3.03	7.79	NP	2.28	7.80
40-305				NP	4.81	10.02	NP	4.24	9.70	NP	3.73	10.00
70-103				4.12	5.30	11.00	4.75	4.80	11.60	3.11	3.14	11.60
RFI-12-38				5.30	5.35	13.90	5.02	6.03	8.00	4.86	5.71	7.60
RFI-12-40				NP	5.45	6.70	NP	5.27	7.53	NP	5.06	7.50
RFI-12-01R				NP	5.75	14.60	NP	5.37	14.56	NP	4.52	14.55
RFI-36-08				NP	6.20	15.73	NP	5.92	15.50	NP	2.70	15.60
RFI-81-07				NP	6.35	13.90	NP	5.19	13.80	NP	13.15	16.20
RFI-81-33				NP	6.59	13.80	NP	4.76	13.70	NP	4.12	13.60
RFI-86-01R				NP	7.13	17.97	NP	21.23	26.00	NP	7.53	NA
RFI-36-14				NP	7.26	15.25	NP	6.99	15.60	NP	3.56	15.40
04-4				NP	7.28	11.75	NP	6.55	12.00	Removed Sample from 2013 Event		
RFI-81-47				NP	7.31	12.53	NP	7.64	12.40	NP	6.03	12.40
RFI-36-09				NP	7.52	16.00						
04-3				NP	7.55	13.65	NP	6.12	13.50	Removed Sample from 2013 Event		
94-100				NP	7.67	18.54	NP	7.50	18.64	NP	7.21	18.65
36-FP5				NP	7.72	12.22						
RFI-83/84-04				8.13	8.40	16.05	8.45	8.50	16.00	6.90	7.15	16.00
RFI-83/84-54				NP	8.49	14.61	NP	8.22	14.80	NP	7.94	14.60
RFI-83/84-53				8.65	9.23	16.80	7.76	9.94	16.70	6.54	8.95	16.60
RFI-36-12				NP	9.29	13.91	NP	8.92	13.70	NP	7.14	13.70
RFI-40-12R				5.92	9.65	21.03	8.89	9.51	20.8	Could not find		
RFI-36-11				NP	10.03	15.52						
36-FP1				NP	10.48	17.69				NP	8.48	22.00
RFI-36-43				NP	10.52	19.85	NP	10.17	19.60	NP	6.71	19.60
RFI-81-13				NP	11.08	15.75	NP	10.56	15.60	NP	10.27	15.60
RFI-36-35				NP	11.22	15.65				NP	9.30	15.50
36-100				NP	11.28	15.70						
RFI-86-08R				11.48	11.49	20.10	NP	9.76	20.20	NP	9.64	20.30
RFI-36-03				NP	11.59	18.72	NP	11.96	18.00	NP	9.83	19.50
36-120				NP	11.61	18.05						
RFI-36-07				11.17	11.64	16.57	10.44	10.46	16.50	NP	8.53	16.50
RFI-83/84-49				9.73	11.67	17.79	8.00	14.04	17.90	8.74	12.70	17.90
40-303R				NP	11.68	32.90						

Table X-4 **Groundwater Level Data:**
2010 - 2013 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

	2010 Data			2011 Data			2012 Data			2013 Data		
Monitoring Well ID Number	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**
RFI-83/84-27				9.64	11.72	15.59	7.80	14.76	15.50	10.64	11.15	15.65
BD01-02R				NP	12.30	19.75	NP	12.83	19.77	NP	10.12	19.80
RFI-83/84-06				9.21	12.70	16.63	8.60	12.80	16.40	7.93	12.55	16.50
RFI-36-55R				NP	12.76	20.50	NP	13.13	20.20	NP	10.89	20.00
RW-05-NORTH				12.31	13.10	19.00	Couldn't Locate					
RFI-36-02				NP	13.21	22.89	NP	13.30	22.70	Removed Sample location for 2013		
36-FP4				NP	13.52	20.56	NP	13.59	20.60	NP	3.69	10.87
RFI-81-21				NP	14.65	15.10	NP	14.88	15.10	No Access Agreement		
RFI-36-05				NP	15.34	21.63	Couldn't Locate					
RFI-36-23				10.81	15.90	17.12						
RFI-36-04				NP	16.30	23.03	NP	16.56	23.00	NP	14.94	22.90
RFI-36-01				NP	16.60	24.82	NP	16.86	24.60	NP	16.13	24.40
RFI-36-06				14.85	17.35	21.05	15.14	15.16	21.90	13.35	15.30	20.80
RFI-38-04				NP	17.45	25.07	NP	17.10	24.80	NP	16.35	24.60
RFI-36-29R				11.62	19.70	21.64	11.03	17.69	21.30	8.53	10.83	21.20
BD01-01				NP	23.51	24.52	NP	Dry	29.21	NP	23.07	24.10
ACSP-B2AR				NP	25.00	32.96	NP	25.72	32.68	NP	24.72	33.00
RFI-36-25R				Blockage at 3.03 feet								
RFI-55-12				Blockage at 5.55 feet						Destroyed		
RFI-10-37							NP	2.81	12.50	NP	1.66	12.40
RFI-86-15							NP	3.91	19.64	NP	3.63	19.70
70-163							NP	4.66	9.73	NP	3.07	9.56
RFI-09-11							NP	6.54	13.99	Underwater		
RFI-36-14				Not found with GPS (see pic)			NP	6.97	15.50	NP	3.56	15.40
RFI-83/84-05							NP	7.14	16.8	Couldn't Locate		
RFI-40-27							NP	7.35	21.50	NP	6.82	21.35
RFI-05-19S							NP	8.67	16.60	NP	7.92	16.50
RFI-36-160							8.51	9.02	12.00	6.00	6.15	17.00
43-161				Covered by debris			7.64	9.36	13.53	Could Not Find		
RFI-05-09							NP	9.39	15.20	NP	8.68	15.20
20-164							NP	10.00	15.70	NP	8.78	15.60
RFI-85-02/02R				Not accessible in Demo Area			NP	11.00	16.50	NP	9.93	16.40
GM-2				Lock was cut and replaced; well was gauged, but cannot locate data.			NP	11.29	31.20	NP	9.58	31.20
GM-1				Lock was cut and replaced; well was gauged, but cannot locate data.			NP	11.83	58.20	NP	10.92	58.30
RFI-07-01R2							NP	13.22	18.90	NP	11.43	18.85

Table X-4 **Groundwater Level Data:**
2010 - 2013 Monitoring Events
RACER Trust, Buick City Site, Flint, Michigan

	2010 Data			2011 Data			2012 Data			2013 Data		
Monitoring Well ID Number	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**	**Depth to LNAPL (feet)**	**Depth to Water (feet)**	**Depth to Bottom (feet)**
RFI-36-44							NP	13.82	22	NP	11.51	22
RFI-36-37							NP	18.09	27.01	NP	15.68	26.79
RFI-36-47							NP	Dry	14.14	Well Replaced with RFI 36-47R		
70-164							NP	Dry	4.38	Well replaced with 70-164R		
RFI-10-31										NP	2.11	13.3
70-164R										NP	3.13	8.31
RFI-84-10S										NP	3.35	22.00
RFI-86-15										NP	3.63	19.70
RFI-10-11										NP	3.85	22.00
88-6										NP	4.16	18.50
RFI-81-12R										NP	4.19	13.70
86-100										NP	4.23	13.80
RFI-81-11										NP	4.52	13.80
RFI-84-10D										NP	4.96	30.00
03-102										NP	5.22	14.3
20-142										NP	6.06	11.90
20-102										NP	6.33	16.20
RFI-09-36R										NP	6.52	13.70
RFI-40-27										NP	6.82	21.35
20-105R										NP	7.14	16.80
43-102E										NP	7.33	22.60
RFI-09-08										NP	7.50	14.60
RFI-10-03										NP	8.06	17.80
RFI-09-55S										NP	8.10	14.70
20-164										NP	8.78	15.60
87-FP3										NP	9.68	14.60
87-FP5										Np	10.28	13.50
RFI-55-09										NP	10.28	17.90
RFI-10-32										NP	12	22.5
RFI-36-47R										NP	12.29	20.8
RFI-94-02R										NP	13.35	24.50

Table X-5 **March 2013 Transmissivity Evaluation Groundwater Levels**
RACER Trust, Buick City Site, Flint, Michigan

AOI Area	Well Number	1-Mar-13				Comments
		Ft of LNAPL	TD (feet)	DTW (feet)	DTP (feet)	
AOI 05-01	30-120	NA	18.46	5.17	NA	
AOI 05-01	43-160	NA	16.61	8.06	NA	
AOI 05-01	43-162	2.22	12.91	9.63	7.41	
AOI 05-01	43-163	0.68	12.73	7.81	7.13	
AOI 05-01	43-164	0.16	13.88	7.22	7.06	
AOI 05-01	43-165	1.19	15.61	7.92	6.73	
AOI 05-01	RFI-05-14	3.05	16.40	14.67	11.62	
AOI 05-01	43-161	NA	NA	NA	NA	Not located
AOI 05-01	43-166	NA	12.50	6.04	NA	
AOI 05-05	RW-05-East	0.01	14.20	10.75	10.74	
AOI 05-05	RW-05-South	1.09	19.65	12.68	11.59	
AOI 10-1/10-4	20-FP8	NA	13.43	7.41	NA	
AOI 10-1/10-4	20-FP4R	NA	NA	NA	NA	Not located
AOI 10-1/10-4	20-170	NA	12.07	6.15	NA	
AOI 10-1/10-4	20-FP7	1.00	13.60	8.23	7.38	
AOI 10-1/10-4	20-164	NA	15.65	10.20	NA	
AOI 36-1 Gasoline	RFI-36-07	0.01	16.48	10.63	10.62	
AOI 36-1 MS/HO	RFI-36-21	NA	NA	NA	NA	Unable to open
AOI 36-1 MS/HO	RFI-36-22	NA	NA	NA	NA	
AOI 36-1 MS/HO	RFI-36-23	6.38	17.00	16.76	10.38	
AOI 36-1 MS/HO	RFI-36-16	NA	NA	NA	NA	
AOI 36-1 MS/HO	RFI-36-06	0.68	20.83	15.91	15.23	
AOI 36-2	36-160	0.01	16.83	8.43	8.42	
AOI 36-2	36-FP7	4.21	17.20	14.35	10.14	
AOI 36-2	RFI-36-29R	6.05	21.22	16.62	10.57	
AOI 36-2	RFI-36-43	NA	19.60	10.32	NA	
AOI 36-5	20-503	0.01	15.35	10.46	10.45	
AOI 36-5	37-RW_North	0.01	17.00	9.36	9.35	
AOI 36-5	20-502	3.05	13.05	12.00	8.95	
AOI 81-2	70-101	0.41	11.79	3.31	2.90	
AOI 81-2	70-107R	3.28	12.69	6.33	3.05	
AOI 81-2	70-102R	0.00	12.53	2.82	2.82	
AOI 81-2	70-104	NA	8.70	2.85	NA	
AOI 81-2	70-106	NA	10.15	4.10	NA	
AOI 81-2	70-103	NA	NA	NA	NA	Not located
AOI 81-2	70-105	NA	11.10	4.48	NA	
AOI 81-2	70-108	NA	15.20	4.43	NA	
AOI 83/84-2	RFI-83/84-27	1.96	15.48	13.05	11.09	
AOI 83/84-2	RFI-83/84-04	NA	NA	NA	NA	Not located
AOI 83/84-2	RFI-83/84-53	1.23	16.63	9.26	8.03	
AOI 83/84-2	RFI-83/84-06	NA	NA	NA	NA	Not located
AOI 83/84-2	RFI-83/84-49	NA	NA	NA	NA	Not located
AOI 83/84-4	RFI-83/84-45	1.15	17.42	10.18	9.03	
AOI 83/84-4	RFI-83/84-44	NA	15.50	9.19	NA	
AOI 83/84-4	RFI-83/84-07	1.29	17.15	10.41	9.12	
AOI 86-1	RFI-86-02	0.01	16.60	8.06	8.05	

Table X-6 **2013 LNAPL Investigation Groundwater Levels**
RACER Trust, Buick City Site, Flint, Michigan

	6-Jun-13				30-Jul-13				24-Sept-13 & 27-Sept-13				1-Nov-13				31-Dec-13			
	W.L. Measurements				W.L. Measurements				W.L. Measurements				W.L. Measurements				W.L. Measurements			
Well Number	Ft of LNAPL	TD (feet)	DTW (feet)	DTP (feet)	Ft of LNAPL	TD (feet)	DTW (feet)	DTP (feet)	Ft of LNAPL	TD (feet)	DTW (feet)	DTP (feet)	Ft of LNAPL	TD (feet)	DTW (feet)	DTP (feet)	Ft of LNAPL	TD (feet)	DTW (feet)	DTP (feet)
MW-83/84-07	1.45	17.10	9.20	7.75	NM	NM	NM	NM	1.88	NM	10.34	8.46	NM	NM	NM	NM	NM	NM	NM	NM
MW-83/84-09	NM	17.20	6.30	NM																
MW-83/84-10	5.67	14.90	11.70	6.03	NM	NM	NM	NM	5.51	NM	12.80	7.29	NM	NM	NM	NM	NM	NM	NM	NM
MW-83/84-12	1.17	14.40	9.00	7.83	NM	NM	NM	NM	1.78	NM	10.10	8.32	NM	NM	NM	NM	NM	NM	NM	NM
MW-83/84-15	2.20	12.90	7.10	4.90	NM	NM	NM	NM	4.46	NM	10.54	6.08	NM	NM	NM	NM	NM	NM	NM	NM
MW-83/84-18	NM	16.50	7.55	NM	0.00	16.26	8.14	NP	0.00	NM	8.44	ND	0.00	16.24	8.21	NP	NM	NM	NM	NM
MW-83/84-19	1.98	17.10	9.72	7.74	2.71	17.03	10.86	8.15	1.88	NM	10.34	8.46	NM	NM	NM	NM	NM	NM	NM	NM
MW-83/84-20	NM	14.97	7.40	NM	0.00	14.96	7.88	NP	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-83/84-21	NM	17.05	7.20	NM	0.00	17.04	7.98	NP	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-83/84-22	NM	16.90	7.35	NM	0.02	16.89	7.85	7.83	0.12	NM	8.36	8.24	NM	NM	NM	NM	NM	NM	NM	NM
MW-83/84-23	NM	15.00	6.18	NM	0.00	14.68	6.92	NP	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-83/84-24	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0.00	13.93	8.36	NP	NM	NM	NM	NM
MW-83/84-25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0.00	14.20	8.36	NP	NM	NM	NM	NM
MW-83/84-26	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	8.38	ND	0.00	16.82	8.37	NP	NM	NM	NM	NM
RFI-83/84-27	NM	NM	NM	NM	NM	NM	NM	NM	3.46	NM	14.56	11.10	NM	NM	NM	NM	NM	NM	NM	NM
MW-83/84-29	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0.00	12.35	6.73	NP	NM	NM	NM	NM
MW-83/84-30	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	7.52	ND	0.00	15.27	7.10	NP	NM	NM	NM	NM
MW-83/84-31	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	7.02	ND	0.00	15.02	6.68	NP	NM	NM	NM	NM
RFI-83/84-53	NM	NM	NM	NM	NM	NM	NM	NM	1.04	NM	9.46	8.42	NM	NM	NM	NM	NM	NM	NM	NM
MW-36-02	NM	24.40	14.68	NM	0.00	24.39	14.61	NP	NM	NM	NM	NM	0.00	24.54	15.59	NP	NM	NM	NM	NM
MW-36-04	1.25	17.40	12.67	11.42	NM	NM	NM	NM	1.03	NM	13.31	12.28	NM	NM	NM	NM	NM	NM	NM	NM
MW-36-06	0.05	19.60	11.90	11.85	5.03	19.58	16.10	11.07	4.98	NM	16.45	11.47	NM	NM	NM	NM	NM	NM	NM	NM
MW-36-07	0.26	28.38	11.10	10.84	NM	NM	NM	NM	4.60	NM	15.78	11.18	NM	NM	NM	NM	NM	NM	NM	NM
MW-36-08	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	13.91	ND	0.00	19.88	14.20	NP	NM	NM	NM	NM
MW-36-09	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	13.81	ND	0.00	20.06	14.11	NP	NM	NM	NM	NM
MW-36-10	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	11.59	ND	0.00	19.86	11.96	NP	NM	NM	NM	NM
RFI-36-29R	NM	NM	NM	NM	NM	NM	NM	NM	3.07	NM	12.09	9.02	NM	NM	NM	NM	NM	NM	NM	NM
36-FP2	NM	NM	NM	NM	NM	NM	NM	NM	0.02	NM	9.48	9.46	NM	NM	NM	NM	NM	NM	NM	NM
36-FP7	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	8.63	8.63	NM	NM	NM	NM	NM	NM	NM	NM
36-160	NM	NM	NM	NM	NM	NM	NM	NM	0.22	NM	7.91	7.69	NM	NM	NM	NM	NM	NM	NM	NM
MW-10-01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0.00	15.45	8.90	NP	NM	NM	NM	NM
MW-10-03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	2.03	NM	11.41	9.38	NM	NM	NM	NM
20-168	NM	NM	NM	NM	NM	NM	NM	NM	1.55	NM	12.60	11.05	0.22	NM	11.43	11.21	NM	NM	NM	NM
MW-10-01	NM	15.50	7.30	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-10-03	1.77	19.60	9.55	7.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RFI-40-02R	NM	NM	NM	NM	NM	NM	NM	NM	1.03	NM	9.83	8.80	NM	NM	NM	NM	NM	NM	NM	NM
MW-40-03	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	11.39	NP	0.00	14.36	10.86	NP	NM	NM	NM	NM
RFI-12-11D	NM	NM	NM	NM	NM	NM	NM	NM	11.86	NM	19.92	8.06	NM	NM	NM	NM	NM	NM	NM	NM

Table X-6 **2013 LNAPL Investigation Groundwater Levels**
RACER Trust, Buick City Site, Flint, Michigan

	6-Jun-13				30-Jul-13				24-Sept-13 & 27-Sept-13				1-Nov-13				31-Dec-13			
	W.L. Measurements				W.L. Measurements				W.L. Measurements				W.L. Measurements				W.L. Measurements			
Well Number	Ft of LNAPL	TD (feet)	DTW (feet)	DTP (feet)	Ft of LNAPL	TD (feet)	DTW (feet)	DTP (feet)	Ft of LNAPL	TD (feet)	DTW (feet)	DTP (feet)	Ft of LNAPL	TD (feet)	DTW (feet)	DTP (feet)	Ft of LNAPL	TD (feet)	DTW (feet)	DTP (feet)
RFI-12-35	NM	NM	NM	NM	NM	NM	NM	NM	0.04	NM	6.71	6.67	0.00	15.05	8.00	NP	NM	NM	NM	NM
MW-03-01	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	7.85	NP	NM	NM	NM	NM	NM	NM	NM	NM
03-03R2	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-83/84-49-1	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	14.75	8.98	NP
TW-83/84-49-2	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	15.26	9.34	NP
TW-83/84-49-3	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	15.25	10.65	NP
TW-83/84-49-4	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	15.16	8.14	NP
TW-83/84-49-5	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	15.01	8.96	NP
TW-83/84-49-6	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-83/84-49-7	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0.97	NM	11.53	10.56
TW-DH-RW-3-1	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	14.96	8.66	NP
TW-DH-RW-3-2	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0.11	NM	9.8	9.69
TW-DH-RW-3-3	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	14.89	9.39	NP
TW-DH-RW-3-4	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	15.39	9.13	NP
MW-05-04	0.36	16.30	10.50	10.14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

Table X-7 **2014 LNAPL Investigation Groundwater Levels**

RACER Trust, Buick City Site, Flint, Michigan

	2-Jan-14				3-Jan-14				14-Jan-14			
		W.L. Measurements				W.L. Measurements				W.L. Measurements		
Well Number	Ft of LNAPL	TD (feet)	DTW (feet)	DTP (feet)	Ft of LNAPL	TD (feet)	DTW (feet)	DTP (feet)	Ft of LNAPL	TD (feet)	DTW (feet)	DTP (feet)
TW-DH-RW-01-01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-01-02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-01-03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-01-04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-01-05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-01-06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-01-07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-02-01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-02-02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-02-03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-02-04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-02-05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-02-06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-02-07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-03-01	NM	NM	NM	NM	0.00	14.99	8.75	NP	0.00	NM	9.40	NP
TW-DH-RW-03-02	NM	NM	NM	NM	0.12	NM	9.75	9.63	0.45	NM	9.70	9.25
TW-DH-RW-03-03	NM	NM	NM	NM	0.00	14.74	9.40	NP	0.00	NM	9.00	NP
TW-DH-RW-03-04	NM	NM	NM	NM	0.00	15.11	9.21	NP	0.00	NM	8.72	NP
TW-DH-RW-03-05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-03-06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-03-07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-03-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-43-165-01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-43-165-02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-43-165-03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-43-165-04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-43-165-05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-43-165-06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-43-165-07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-43-165-08	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-43-165-09	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-05-01-01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-05-01-02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-05-05-03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-05-05-05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-05-10	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-05-13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-101-01	0.00	13.05	8.39	NP	0.00	13.05	8.44	NP	0.00	NM	7.90	NP
TW-70-101-02	0.00	12.77	7.96	NP	0.00	12.76	8.03	NP	0.00	NM	7.66	NP
TW-70-101-03	0.00	10.35	6.43	NP	0.00	10.35	6.48	NP	0.00	NM	6.04	NP
TW-70-101-04	0.00	9.83	5.15	NP	0.00	9.91	5.18	NP	0.00	NM	4.42	NP
TW-70-101-05	0.00	10.32	6.28	NP	0.00	10.32	6.33	NP	0.00	NM	5.45	NP
TW-70-101-06	0.00	10.16	5.13	NP	0.00	10.15	5.19	NP	0.00	NM	4.65	NP
TW-70-101-07	0.00	9.55	5.37	NP	0.00	9.54	5.41	NP	0.00	NM	4.90	NP

Table X-7 **2014 LNAPL Investigation Groundwater Levels**

RACER Trust, Buick City Site, Flint, Michigan

Well Number	2-Jan-14				3-Jan-14				14-Jan-14			
	Ft of LNAPL	W.L. Measurements			Ft of LNAPL	W.L. Measurements			Ft of LNAPL	W.L. Measurements		
		TD (feet)	DTW (feet)	DTP (feet)		TD (feet)	DTW (feet)	DTP (feet)		TD (feet)	DTW (feet)	DTP (feet)
TW-70-103-01	0.00	15.33	6.75	NP	0.00	15.32	6.81	NP	0.00	NM	6.18	NP
TW-70-103-02	0.00	9.97	5.40	NP	0.00	10.01	5.45	NP	0.00	NM	4.73	NP
TW-70-103-03	0.00	15.33	6.52	NP	0.00	15.33	6.59	NP	0.00	NM	5.87	NP
TW-70-103-04	0.00	15.27	6.69	NP	0.00	15.26	6.75	NP	0.00	NM	6.10	NP
TW-70-103-05	0.32	NM	7.35	7.03	0.00	15.32	7.60	NP	0.50	NM	7.00	6.50
TW-70-103-06	0.00	15.32	6.69	NP	0.00	15.33	7.02	NP	0.00	NM	6.38	NP
TW-70-103-07	0.00	15.32	6.55	NP	0.00	15.32	6.60	NP	0.00	NM	5.99	NP
TW-70-103-08	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-103-09	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-103-10	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-103-11	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-107R-01	0.00	10.29	6.10	NP	0.00	10.29	6.10	NP	0.00	NM	4.90	NP
TW-70-107R-02	0.07	NM	5.97	5.90	0.00	10.27	5.95	NP	0.00	NM	5.17	NP
TW-70-107R-03	0.00	10.27	7.08	NP	0.00	10.24	7.15	NP	0.00	NM	6.34	NP
TW-70-107R-04	1.04	NM	7.38	6.34	0.00	10.14	6.38	NP	0.00	NM	5.45	NP
TW-70-107R-05	0.00	9.91	6.42	NP	0.00	9.90	6.47	NP	0.00	NM	5.40	NP
TW-70-107R-06	0.00	10.15	7.33	NP	0.00	10.15	7.36	NP	0.00	NM	6.67	NP
TW-70-107R-07	0.00	10.06	7.49	NP	0.00	10.05	7.55	NP	0.00	NM	6.45	NP
TW-70-107R-08	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-107R-09	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-107R-10	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-10-08-01	0.00	15.32	9.78	NP	0.00	15.32	10.02	NP	0.00	NM	9.51	NP
TW-10-08-02	0.00	15.34	9.00	NP	0.00	15.34	9.20	NP	0.00	NM	8.65	NP
TW-10-08-03	4.36	NM	13.76	9.40	4.20	NM	13.71	9.51	4.00	NM	13.65	9.65
TW-10-08-04	0.16	NM	8.50	8.34	0.00	15.32	8.50	NP	0.10	NM	8.24	8.14
TW-10-08-05	0.00	15.30	8.33	NP	0.00	15.30	8.47	NP	0.00	NM	7.10	NP
TW-10-08-06	0.00	15.33	6.81	NP	0.00	15.34	8.74	NP	0.00	NM	6.83	NP
TW-10-08-07	0.00	14.20	7.42	NP	0.00	14.25	7.49	NP	0.00	NM	6.22	NP
TW-10-08-11	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-10-08-12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-10-04-01	0.00	13.62	12.39	NP	0.00	17.40	13.67	NP	0.00	NM	13.08	NP
MW-10-12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-10-13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-10-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-10-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-83/84-49-01	NM	NM	NM	NM	0.00	14.87	10.18	NP	0.00	NM	7.19	NP
TW-83/84-49-02	NM	NM	NM	NM	0.00	15.31	10.60	NP	0.00	NM	8.88	NP
TW-83/84-49-03	NM	NM	NM	NM	0.00	15.26	10.93	NP	0.00	NM	10.32	NP
TW-83/84-49-04	NM	NM	NM	NM	0.00	15.15	10.44	NP	0.00	NM	6.37	NP
TW-83/84-49-05	NM	NM	NM	NM	0.00	15.02	10.77	NP	0.00	NM	9.70	NP
TW-83/84-49-06	NM	NM	NM	NM	0.00	15.33	10.72	NP	0.00	NM	10.06	NP
TW-83/84-49-07	NM	NM	NM	NM	0.00	15.34	10.60	NP	0.00	NM	5.50	NP
MW-83/84-34	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-83/84-35	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-83/84-36	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-83/84-37	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

Table X-7 **2014 LNAPL Investigation Groundwater Levels**

RACER Trust, Buick City Site, Flint, Michigan

	15-Jan-14				27-Jan-14				30-Jan-14			
		W.L. Measurements				W.L. Measurements				W.L. Measurements		
Well Number	Ft of LNAPL	TD (feet)	DTW (feet)	DTP (feet)	Ft of LNAPL	TD (feet)	DTW (feet)	DTP (feet)	Ft of LNAPL	TD (feet)	DTW (feet)	DTP (feet)
TW-DH-RW-01-01	0.00	NM	10.15	NP	0.00	NM	10.40	NP	NM	NM	NM	NM
TW-DH-RW-01-02	0.00	NM	10.27	NP	0.00	NM	10.28	NP	NM	NM	NM	NM
TW-DH-RW-01-03	0.00	NM	10.35	NP	0.00	NM	10.70	NP	NM	NM	NM	NM
TW-DH-RW-01-04	0.00	NM	9.98	NP	0.00	NM	10.29	NP	NM	NM	NM	NM
TW-DH-RW-01-05	0.00	NM	10.05	NP	0.00	NM	10.35	NP	NM	NM	NM	NM
TW-DH-RW-01-06	0.00	NM	10.25	NP	0.00	NM	10.48	NP	NM	NM	NM	NM
TW-DH-RW-01-07	0.20	NM	10.30	10.10	1.90	NM	12.30	10.40	NM	NM	NM	NM
TW-DH-RW-02-01	0.00	NM	10.70	NP	0.00	NM	11.15	NP	NM	NM	NM	NM
TW-DH-RW-02-02	0.00	NM	10.55	NP	0.00	NM	11.88	NP	NM	NM	NM	NM
TW-DH-RW-02-03	0.00	NM	11.01	NP	0.00	NM	11.25	NP	NM	NM	NM	NM
TW-DH-RW-02-04	0.00	NM	DRY	NP		NM	DRY		NM	NM	NM	NM
TW-DH-RW-02-05	0.00	NM	10.10	NP	0.00	NM	10.54	NP	NM	NM	NM	NM
TW-DH-RW-02-06	0.00	NM	11.12	NP	0.00	NM	11.39	NP	NM	NM	NM	NM
TW-DH-RW-02-07	0.00	NM	10.47	NP	0.00	NM	10.74	NP	NM	NM	NM	NM
TW-DH-RW-03-01	NM	NM	NM	NM	0.00	NM	8.78	NP	NM	NM	NM	NM
TW-DH-RW-03-02	NM	NM	NM	NM	0.19	NM	9.90	9.71	NM	NM	NM	NM
TW-DH-RW-03-03	NM	NM	NM	NM	0.00	NM	9.40	NP	NM	NM	NM	NM
TW-DH-RW-03-04	NM	NM	NM	NM	0.00	NM	9.18	NP	NM	NM	NM	NM
TW-DH-RW-03-05	0.00	NM	10.04	NP	0.53	NM	10.96	10.43	NM	NM	NM	NM
TW-DH-RW-03-06	0.00	NM	9.30	NP	0.00	NM	9.67	NP	NM	NM	NM	NM
TW-DH-RW-03-07	0.00	NM	9.75	NP	0.00	NM	10.05	NP	NM	NM	NM	NM
TW-DH-RW-03-14	NM	NM	NM	NM	0.00	NM	10.15	NP	NM	NM	NM	NM
TW-43-165-01	0.00	NM	9.85	NP	0.00	NM	10.23	NP	NM	NM	NM	NM
TW-43-165-02	1.00	NM	11.35	10.35	2.90	NM	12.15	9.25	NM	NM	NM	NM
TW-43-165-03	0.00	NM	9.45	NP	0.00	NM	9.84	NP	NM	NM	NM	NM
TW-43-165-04	0.00	NM	9.40	NP	2.50	NM	12.30	9.80	NM	NM	NM	NM
TW-43-165-05	0.00	NM	9.25	NP	0.00	NM	9.61	NP	NM	NM	NM	NM
TW-43-165-06	0.00	NM	9.27	NP	0.00	NM	8.92	NP	NM	NM	NM	NM
TW-43-165-07	0.00	NM	8.40	NP	0.00	NM	8.75	NP	NM	NM	NM	NM
TW-43-165-08	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-43-165-09	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-05-01-01	2.95	NM	16.30	13.35	2.30	NM	15.90	13.60	NM	NM	NM	NM
TW-05-01-02	2.90	NM	16.20	13.30	2.50	NM	16.30	13.80	NM	NM	NM	NM
TW-05-05-03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-05-05-05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-05-10	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-05-13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-101-01	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	8.45	NP
TW-70-101-02	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	8.02	NP
TW-70-101-03	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	6.48	NP
TW-70-101-04	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	5.14	NP
TW-70-101-05	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	6.30	NP
TW-70-101-06	NM	NM	NM	NM	NM	NM	NM	NM	0.01	NM	5.15	5.14
TW-70-101-07	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	5.37	5.37

Table X-7 **2014 LNAPL Investigation Groundwater Levels**

RACER Trust, Buick City Site, Flint, Michigan

Well Number	15-Jan-14				27-Jan-14				30-Jan-14			
	Ft of LNAPL	W.L. Measurements			Ft of LNAPL	W.L. Measurements			Ft of LNAPL	W.L. Measurements		
		TD (feet)	DTW (feet)	DTP (feet)		TD (feet)	DTW (feet)	DTP (feet)		TD (feet)	DTW (feet)	DTP (feet)
TW-70-103-01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-103-02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-103-03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-103-04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-103-05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-103-06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-103-07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-103-08	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-103-09	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-103-10	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-103-11	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-107R-01	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	6.84	NP
TW-70-107R-02	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	5.47	NP
TW-70-107R-03	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	6.59	NP
TW-70-107R-04	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	6.75	NP
TW-70-107R-05	NM	NM	NM	NM	NM	NM	NM	NM	0.16	NM	7.24	7.08
TW-70-107R-06	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	7.06	NP
TW-70-107R-07	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	6.60	NP
TW-70-107R-08	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-107R-09	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-107R-10	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-10-08-01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-10-08-02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-10-08-03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-10-08-04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-10-08-05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-10-08-06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-10-08-07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-10-08-11	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-10-08-12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-10-04-01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-10-12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-10-13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-10-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-10-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-83/84-49-01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-83/84-49-02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-83/84-49-03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-83/84-49-04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-83/84-49-05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-83/84-49-06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-83/84-49-07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-83/84-34	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-83/84-35	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-83/84-36	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-83/84-37	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

Table X-7 **2014 LNAPL Investigation Groundwater Levels**

RACER Trust, Buick City Site, Flint, Michigan

	14-Feb-14				17-Feb-14 & 18-Feb-14				18-Mar-14			
		W.L. Measurements				W.L. Measurements				W.L. Measurements		
Well Number	Ft of LNAPL	TD (feet)	DTW (feet)	DTP (feet)	Ft of LNAPL	TD (feet)	DTW (feet)	DTP (feet)	Ft of LNAPL	TD (feet)	DTW (feet)	DTP (feet)
TW-DH-RW-01-01	NM	NM	NM	NM	NM	NM	NM	NM	1.45	NM	10.45	9.00
TW-DH-RW-01-02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-01-03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-01-04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-01-05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-01-06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-01-07	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	10.19	NP
TW-DH-RW-02-01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-02-02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-02-03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-02-04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-02-05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-02-06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-02-07	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	10.45	NP
TW-DH-RW-03-01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-03-02	NM	NM	NM	NM	NM	NM	NM	NM	2.20	NM	11.45	9.25
TW-DH-RW-03-03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-03-04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-03-05	NM	NM	NM	NM	NM	NM	NM	NM	1.30	NM	11.30	10.00
TW-DH-RW-03-06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-03-07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-DH-RW-03-14	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	9.70	NP
TW-43-165-01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-43-165-02	NM	NM	NM	NM	NM	NM	NM	NM	1.05	NM	11.30	10.25
TW-43-165-03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-43-165-04	NM	NM	NM	NM	NM	NM	NM	NM	0.20	NM	9.45	9.25
TW-43-165-05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-43-165-06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-43-165-07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-43-165-08	0.00	NM	9.98	NP	0.00	NM	10.10	NP	0.00	NM	9.35	NP
TW-43-165-09	0.00	NM	14.73	NP	0.00	NM	14.85	NP	0.00	NM	14.05	NP
TW-05-01-01	NM	NM	NM	NM	NM	NM	NM	NM	4.15	NM	17.25	13.10
TW-05-01-02	NM	NM	NM	NM	NM	NM	NM	NM	3.35	NM	16.45	13.10
TW-05-05-03	0.00	NM	14.68	NP	0.30	NM	14.75	15.05	0.00	NM	14.35	NP
TW-05-05-05	0.00	NM	14.79	NP	0.23	NM	14.92	15.15	2.40	NM	15.80	13.40
MW-05-10	0.00	NM	6.92	NP	0.00	NM	7.00	NP	0.00	NM	6.45	NP
MW-05-13	0.00	NM	8.09	NP	0.00	NM	8.18	NP	0.00	NM	7.72	NP
TW-70-101-01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-101-02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-101-03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-101-04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-101-05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-101-06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-101-07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

Table X-7 **2014 LNAPL Investigation Groundwater Levels**

RACER Trust, Buick City Site, Flint, Michigan

Well Number	14-Feb-14				17-Feb-14 & 18-Feb-14				18-Mar-14			
	Ft of LNAPL	W.L. Measurements			Ft of LNAPL	W.L. Measurements			Ft of LNAPL	W.L. Measurements		
		TD (feet)	DTW (feet)	DTP (feet)		TD (feet)	DTW (feet)	DTP (feet)		TD (feet)	DTW (feet)	DTP (feet)
TW-70-103-01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-103-02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-103-03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-103-04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-103-05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-103-06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-103-07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-103-08	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-103-09	0.00	NM	7.24	NP	0.00	NM	7.32	NP	NM	NM	NM	NM
TW-70-103-10	NM	NM	NM	NM					NM	NM	NM	NM
TW-70-103-11	NM	NM	NM	NM					NM	NM	NM	NM
TW-70-107R-01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-107R-02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-107R-03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-107R-04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-107R-05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-107R-06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-107R-07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-107R-08	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-107R-09	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-70-107R-10	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-10-08-01	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	9.10	NP
TW-10-08-02	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	8.65	NP
TW-10-08-03	NM	NM	NM	NM	NM	NM	NM	NM	2.80	NM	11.20	8.40
TW-10-08-04	NM	NM	NM	NM	NM	NM	NM	NM	0.05	NM	8.75	8.70
TW-10-08-05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-10-08-06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-10-08-07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-10-08-11	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	8.10	NP
TW-10-08-12	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	7.92	NP
TW-10-04-01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-10-12	NM	NM	NM	NM	NM	NM	NM	NM	0.50	NM	9.80	9.30
MW-10-13	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	8.33	NP
MW-10-14	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	9.10	NP
MW-10-15	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	8.70	NP
TW-83/84-49-01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-83/84-49-02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-83/84-49-03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-83/84-49-04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-83/84-49-05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-83/84-49-06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TW-83/84-49-07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-83/84-34	1.94	NM	11.19	9.25	1.69	NM	11.24	9.55	4.40	NM	12.70	8.30
MW-83/84-35	0.00	NM	8.40	NP	0.00	NM	8.51	NP	0.00	NM	8.10	NP
MW-83/84-36	0.00	NM	8.59	NP	0.00	NM	8.70	NP	0.00	NM	8.23	NP
MW-83/84-37	0.00	NM	8.69	NP	0.00	NM	8.74	NP	0.00	NM	8.30	NP

Table X-8 AOI 40-A, B & 16-C Fuel Oil LNAPL Areas - 2003-2005
RACER Trust, Buick City Site, Flint, Michigan

Well ID and Date Measured	Depth to LNAPL (feet bgs)	Depth to Water (feet bgs)	LNAPL Thickness (feet)	Estimated Volume of LNAPL Bailed (gallons)	Screened Interval (feet bgs)	Comments
40-01R						
6/8/2003	NP	3.69	NP	0.00	6.0 - 11.0	
9/4/2003	NM	NM	NA	0.00		Destroyed by demolition - replacement well scheduled
Total Estimated LNAPL Removed (gallons):				**0.00**		
40-01R2						
12/15/2003	NP	4.46	NP	0.00	5.0 - 10.0	Replacement well
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	NP	4.32	NP	0.00		
12/1/2004	NM	NM	NM	NM		
12/1/2005	NM	NM	NM	NM		
Total Estimated LNAPL Removed (gallons):				**0.00**		
40-06R						
6/8/2003	NP	5.27	NP	0.00	4.5 - 9.5	
9/4/2003	NP	5.90	NP	0.00		Added LNAPL well
12/15/2003	NP	4.51	NP	0.00		
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	NP	5.71	NP	0.00		
12/1/2004	NM	NM	NM	NM		
12/1/2004	NM	NM	NM	NM		
Total Estimated LNAPL Removed (gallons):				**0.00**		
40-07R2						
6/8/2003	NP	`	NP	0.00	13.0 - 23.0	
9/4/2003	NP	15.30	NP	0.00		Added LNAPL well
12/15/2003	14.50	14.88	0.38	0.06		
6/23/2004	12.53	14.50	1.97	0.32		
9/20/2004	14.00	14.72	0.72	0.12		
12/1/2004	13.95	14.64	0.69	0.11		
12/22/2005	14.33	14.79	0.46	0.00		
Total Estimated LNAPL Removed (gallons):				**0.61**		
40-302						
3/2/2003	NP	7.18	NP	0.00	11.0 - 16.0	Sentinel well
6/2/2003	NP	7.05	NP	0.00		
9/4/2003	NP	7.20	NP	0.00		
12/15/2003	NP	6.75	NP	0.00		
3/8/2004	NP	6.58	NP	0.00		
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	NP	7.21	NP	0.00		
12/1/2004	NM	NM	NM	NM		
12/22/2005	NP	7.36	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-16-04						
3/2/2003	NP	9.02	NP	0.00	6.8 - 11.8	Sentinel well
6/2/2003	NP	8.19	NP	0.00		
9/4/2003	NP	0.00	NP	0.00		Buried under demolition debris - well will be uncovered
12/15/2003	NM	NM	NM	0.00		Well destroyed - replacement well installed (RFI-16-04R)
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-16-04R						
3/8/2004	NP	9.63	NP	0.00	6.0 - 16.0	Replacement well
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	NP	7.80	NP	0.00		
12/1/2004	NM	NM	NM	NM		
12/22/2005	NP	7.78	NP	0.00		
Total Estimated LNAPL Removed (gallons):				0.00		
RFI-16-07						
3/2/2003	NP	7.35	NP	0.00	1.4 - 11.4	Sentinel well
6/2/2003	NP	6.55	NP	0.00		
9/4/2003	NP	6.66	NP	0.00		
12/15/2003	NP	7.72	NP	0.00		
3/8/2004	NP	6.07	NP	0.00		
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	NP	6.53	NP	0.00		
12/1/2004	NM	NM	NM	NM		
12/22/2005	NP	6.79	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-16-08						
3/2/2003	NM	NM	NM	NM	2.5 - 12.5	
4/13/2003	6.63	6.64	0.01	0.00		
6/2/2003	6.69	6.79	0.10	0.00		
6/8/2003	6.24	6.36	0.12	0.02		
9/4/2003	5.81	7.32	1.51	0.24		
12/15/2003	6.58	6.85	0.27	0.00		
3/8/2004	6.10	6.32	0.22	0.04		
5/2/2004	6.04	6.37	0.33	0.05		
5/9/2004	4.92	5.22	0.30	0.05		
6/23/2004	5.86	6.13	0.27	0.09		
9/20/2004	6.61	7.20	0.59	0.10		
12/1/2004	5.92	6.41	0.49	0.08		
12/22/2005	6.94	7.36	0.42	0.00		
Total Estimated LNAPL Removed (gallons):				**0.67**		
RFI-16-09						
3/2/2003	NP	7.89	NP	0.00	4.5 - 9.5	Sentinel well
6/2/2003	NP	6.19	NP	0.00		
9/4/2003	NP	6.78	NP	0.00		
12/15/2003	NP	5.72	NP	0.00		
3/8/2004	NP	5.28	NP	0.00		
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	NP	6.03	NP	0.00		
12/1/2004	NM	NM	NM	NM		
12/22/2005	NP	6.52	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		

Table X-8 AOI 40-A, B & 16-C Fuel Oil LNAPL Areas - 2003-2005
RACER Trust, Buick City Site, Flint, Michigan

Well ID and Date Measured	Depth to LNAPL (feet bgs)	Depth to Water (feet bgs)	LNAPL Thickness (feet)	Estimated Volume of LNAPL Bailed (gallons)	Screened Interval (feet bgs)	Comments
RFI-16-10						
3/2/2003	10.46	11.40	0.94	0.15	4.0 - 14.0	
4/13/2003	9.52	9.60	0.08	0.01		
6/2/2003	8.94	9.19	0.25	0.00		
6/8/2003	8.41	8.73	0.32	0.05		
9/4/2003	9.34	9.86	0.52	0.08		
12/15/2003	8.97	9.26	0.29	0.00		
3/8/2004	8.04	8.14	0.10	0.00		
5/2/2004	8.70	8.75	0.05	0.08		
5/9/2004	6.61	6.85	0.24	0.03		
6/23/2004	8.02	8.20	0.18	0.00		
9/20/2004	9.20	9.55	0.35	0.06		
12/1/2004	8.05	8.45	0.40	0.06		
12/22/2005	9.39	9.50	0.11	0.00		
Total Estimated LNAPL Removed (gallons):				**0.53**		
RFI-16-20						
3/2/2003	NP	8.43	NP	0.00	6.0 - 11.0	Sentinel well
6/2/2003	NP	6.64	NP	0.00		
9/4/2003	NP	6.96	NP	0.00		
12/15/2003	NP	5.43	NP	0.00		
3/8/2004	NP	6.46	NP	0.00		
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	NP	7.10	NP	0.00		
12/1/2004	NM	NM	NM	NM		
12/22/2005	NP	7.41	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-40-02R						
9/4/2003	8.54	8.91	0.37	0.06	5.0 - 15.0	
12/15/2003	8.35	8.80	0.45	0.07		
4/19/2004	8.60	9.80	1.20	0.12		
6/23/2004	7.61	8.51	0.90	0.15		
9/20/2004	8.50	9.71	1.21	0.20		
12/1/2004	5.90	9.34	3.44	0.55		
12/22/2005	8.55	9.90	1.35	0.22		
Total Estimated LNAPL Removed (gallons):				**1.37**		
RFI-40-12						
6/8/2003	NP	12.94	NP	0.00	12.0 - 22.0	
9/4/2003	NM	NM	NM	0.00		
12/15/2003	NP	12.46	NP	0.00		
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	11.55	11.56	0.01	0.00		
12/1/2004	NM	NM	NM	NM		
12/1/2005	NM	NM	NM	NM		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-40-13						
6/8/2003	NP	12.00	NP	0.00	9.0 - 19.0	
9/4/2003	NP	11.74	NP	0.00		Added Sentinel well
12/15/2003	NP	10.8	NP	0.00		
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	NP	10.80	NP	0.00		
12/1/2004	NM	NM	NM	NM		
12/22/2005	NM	NM	NM	NM		Surveyors located but it is within fenced area
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-40-14R						
12/1/2004	10.10	12.43	2.33	0.00		
6/2005	9.26	12.70	3.44	0.00		
12/22/2005	11.14	12.55	1.41	0.23		
Total Estimated LNAPL Removed (gallons):				**0.23**		
RFI-40-20						
1/19/2005	NP	9.00	NP	0.00		Added step-out well installed 12/2004
6/2005	NP	7.71	NP	0.00		
12/22/2005	NP	8.87	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-40-25						
1/29/2005	NP	10.35	NP	0.00		Added step-out well installed 12/2004
6/2005	NP	8.92	NP	0.00		
12/22/2005	NP	9.52	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-40-26						
1/19/2005	NP	16.15	NP	0.00		Added step-out well installed 12/2004
6/2005	14.78	14.81	0.03	0.00		
12/22/2005	16.40	16.45	0.05	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-40-27						
1/19/2005	NP	9.94	NP	0.00		Added step-out well installed 12/2004
6/2005	NP	8.58	NP	0.00		
12/2005	NM	NM	NM	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		

Table X-9 **AOI 86-1 Fuel Oil LNAPL Areas - 2003-2005**
RACER Trust, Buick City Site, Flint, Michigan

Well ID and Date Measured	Depth to LNAPL (feet bgs)	Depth to Water (feet bgs)	LNAPL Thickness (feet)	Estimated Volume of LNAPL Bailed (gallons)	Screened Interval (feet bgs)	Comments
87-FP1						
3/2/2003	NP	2.76	NP	0.00	1.5 - 6.3	Sentinel well
6/2/2003	NP	1.99	NP	0.00		
9/4/2003	NP	1.82	NP	0.00		
12/15/2003	NP	1.86	NP	0.00		
3/8/2004	NP	2.03	NP	0.00		
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	NP	1.58	NP	0.00		
12/1/2004	NM	NM	NM	NM		
12/28/2005	NP	2.13	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
MW-00-FP6						
3/2/2003	NP	16.65	NP	0.00	5.0 - 18.0	Sentinel well
6/2/2003	NP	16.60	NP	0.00		
9/4/2003	NP	16.59	NP	0.00		
12/15/2003	NP	16.59	NP	0.00		
3/8/2004	NM	NM	NA	0.00		Well covered by demolition debris
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	NP	16.62	NP	0.00		
12/1/2004	NM	NM	NM	NM		
12/28/2005	NP	14.99	NP	0.00		Sheen on probe
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-85-02/02R						
3/2/2003	NP	12.64	NP	0.00	6.6 - 16.6	
6/2/2003	NP	11.72	NP	0.00		
9/4/2003	NP	11.92	NP	0.00		
12/15/2003	NP	11.63	NP	0.00		
3/8/2004	NM	NM	NA	0.00		Well covered by demolition debris
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	7.31	7.57	0.26	0.04		
12/1/2004	NM	NM	NM	NM		
12/28/2005	NM	NM	NM	NM		Not located - covered by snow
Total Estimated LNAPL Removed (gallons):				**0.04**		
RFI-86-02						
3/2/2003	8.17	10.56	2.39	0.38	6.8 - 16.8	Sentinel well
6/2/2003	NP	7.84	NP	0.00		
9/4/2003	7.89	9.19	1.3	0.21		
12/15/2003	7.69	8.14	0.45	0.07		
3/8/2004	7.81	7.82	0.01	0.00		
6/23/2004	NP	6.75	NP	0.00		
9/20/2004	7.44	7.51	0.07	0.00		
12/1/2004	NP	7.09	NP	0.00		
12/28/2005	6.60	6.63	0.03	0.00		
Total Estimated LNAPL Removed (gallons):				**0.66**		
RFI-86-03						
3/2/2003	8.16	8.70	0.54	0.09	5.0 - 15.0	
6/2/2003	NP	7.34	NP	0.00		
9/4/2003	7.51	8.02	0.51	0.08		
12/15/2003	7.28	7.29	0.01	0.00		
3/8/2004	NP	7.24	NP	0.00		
6/23/2004	NP	5.95	NP	0.00		
9/20/2004	6.90	6.95	0.05	0.00		
12/1/2004	6.52	6.55	0.03	0.00		
12/28/2005	NM	NM	NM	NM		Possibly destroyed by RR removal
Total Estimated LNAPL Removed (gallons):				**0.17**		
RFI-86-06D						
3/2/2003	NP	12.97	NP	0.00	14.5 - 24.5	Sentinel well
6/2/2003	NP	20.09	NP	0.00		
9/4/2003	NP	21.75	NP	0.00		
12/15/2003	NP	15.84	NP	0.00		
3/8/2004	NP	21.16	NP	0.00		
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	NP	21.75	NP	0.00		
12/1/2004	NM	NM	NM	NM		
12/28/2005	NP	22.20	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-86-06S						
3/2/2003	NP	12.34	NP	0.00	9.5 - 14.5	Sentinel well
6/2/2003	NP	11.99	NP	0.00		
9/4/2003	NP	12.09	NP	0.00		
12/15/2003	NP	16.15	NP	0.00		
3/8/2004	NP	12.01	NP	0.00		
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	NP	11.81	NP	0.00		
12/1/2004	NM	NM	NM	NM		
12/28/2005	NP	11.64	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		

Table X-10 AOI 05-1/05-5 Cutting Oil LNAPL Areas - 2003-2005
RACER Trust, Buick City Site, Flint, Michigan

Well ID and Date Measured	Depth to LNAPL (feet bgs)	Depth to Water (feet bgs)	LNAPL Thickness (feet)	Estimated Volume of LNAPL Bailed (gallons)	Screened Interval (feet bgs)	Comments
30-120						
3/2/2003	8.26	10.80	2.54	0.41	5.0 - 20.0	Sentinel well - possible LNAPL - well to be rechecked
6/2/2003	NM	NM	NM	0.00		
6/18/2003	NP	6.52	NP	0.00		
9/4/2003	NP	6.74	NP	0.00		
12/15/2003	NP	6.90	NP	0.00		
3/8/2004	NP	6.30	NP	0.00		
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	NP	7.22	NP	0.00		
12/1/2004	NM	NM	NM	0.00		
12/2/2005	NP	7.02	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.41**		
43-160						
3/2/2003	10.05	10.18	0.13	0.00	9.0 - 14.0	
6/2/2003	0.00	9.50	0.00	0.00		
9/4/2003	9.59	9.61	0.02	0.00		Absorbent sock in well
12/15/2003	9.34	9.39	0.05	0.00		
3/8/2004	9.63	9.73	0.10	0.02		
6/23/2004	9.34	9.40	0.06	0.00		
9/20/2004	9.45	10.01	0.56	0.09		
12/1/2004	9.56	9.70	0.14	0.00		
12/2/2005	9.85	10.34	0.49	0.00		
Total Estimated LNAPL Removed (gallons):				**0.11**		
43-161						
3/2/2003	NP	10.01	NP	0.00	9.0 - 14.0	
6/2/2003	NP	9.39	NP	0.00		
9/4/2003	NP	9.42	NP	0.00		Absorbent sock in well
12/15/2003	NP	9.13	NP	0.00		
3/8/2004	NP	9.53	NP	0.00		
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	9.31	9.80	0.49	0.09		
12/1/2004	NM	NM	NM	0.00		
12/27/2005	9.51	9.57	0.06	0.00		
Total Estimated LNAPL Removed (gallons):				**0.09**		
43-162						
3/2/2003	9.47	11.99	2.52	0.40	8.5 - 13.5	
6/2/2003	8.85	10.60	1.75	0.28		
9/4/2003	8.94	11.06	2.12	0.34		Well cover missing bolts - to be replaced
12/15/2003	8.63	10.74	2.11	0.34		
3/8/2004	8.98	11.04	2.06	0.34		
6/23/2004	8.51	10.48	1.97	0.32		
9/20/2004	8.76	11.25	2.49	0.40		
12/1/2004	8.83	10.72	1.89	0.30		
12/2/2005	9.30	11.60	2.30	0.37		
Total Estimated LNAPL Removed (gallons):				**3.09**		
43-163						
3/2/2003	9.25	9.75	0.50	0.00	8.5 - 13.5	
6/2/2003	8.45	9.80	1.35	0.22		
9/4/2003	8.62	10.19	1.57	0.25		
12/15/2003	8.15	10.37	2.22	0.36		
3/8/2004	8.36	11.15	2.79	0.45		
6/23/2004	7.96	10.16	2.20	0.34		
9/20/2004	8.25	11.70	3.45	0.56		
12/1/2004	8.80	10.35	1.55	0.25		
12/2/2005	9.11	11.54	2.43	0.40		
Total Estimated LNAPL Removed (gallons):				**2.82**		
43-164						
3/2/2003	9.16	10.00	0.84	0.00	9.5 - 14.5	
6/2/2003	8.42	8.78	0.36	0.06		
9/4/2003	8.65	8.73	0.08	0.00		
12/15/2003	8.18	8.50	0.32	0.05		
3/8/2004	8.45	9.37	0.92	0.15		
6/23/2004	7.94	8.04	0.10	0.00		
9/20/2004	8.37	13.83	5.46	0.90		
12/1/2004	8.15	8.55	0.40	0.06		
12/2/2005	9.24	9.86	0.62	0.10		
Total Estimated LNAPL Removed (gallons):				**1.32**		
43-165						
3/2/2003	8.70	11.20	2.50	0.40	6.0 - 16.0	
6/2/2003	7.61	8.58	0.97	0.16		
9/4/2003	7.79	9.98	2.19	0.35		
12/15/2003	7.30	8.03	0.73	0.12		
3/8/2004	7.47	8.02	0.55	0.09		
6/23/2004	6.90	7.45	0.55	0.09		
9/20/2004	7.15	8.20	1.05	0.17		
12/1/2004	7.40	9.48	2.08	0.33		
12/2/2005	7.73	9.96	2.23	0.36		
Total Estimated LNAPL Removed (gallons):				**2.06**		

Table X-10 AOI 05-1/05-5 Cutting Oil LNAPL Areas - 2003-2005
RACER Trust, Buick City Site, Flint, Michigan

Well ID and Date Measured	Depth to LNAPL (feet bgs)	Depth to Water (feet bgs)	LNAPL Thickness (feet)	Estimated Volume of LNAPL Bailed (gallons)	Screened Interval (feet bgs)	Comments
43-166						
3/2/2003	NP	7.84	NP	0.00	5.0 - 15.0	Sentinel well
6/2/2003	NP	7.05	NP	0.00		
9/4/2003	NP	7.21	NP	0.00		
12/15/2003	NP	6.83	NP	0.00		
3/8/2004	NP	7.05	NP	0.00		
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	NP	7.00	NP	0.00		
12/1/2004	NM	NM	NM	NM		
12/2/2005	NP	7.66	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
43-167						
3/2/2003	NP	8.40	NP	0.00	5.0 - 15.0	Sentinel well
6/2/2003	NP	7.70	NP	0.00		
9/4/2003	NP	7.76	NP	0.00		
12/15/2003	NP	7.50	NP	0.00		
3/8/2004	NP	7.89	NP	0.00		
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	NP	8.70	NP	0.00		
12/1/2004	NM	NM	NM	NM		
12/2/2005	NP	8.09	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
43-168						
3/2/2003	NP	9.98	NP	0.00	5.0 - 15.0	Sentinel well
6/2/2003	NP	9.36	NP	0.00		
9/4/2003	NP	9.43	NP	0.00		
12/15/2003	NP	9.13	NP	0.00		
3/8/2004	NP	9.58	NP	0.00		
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	NP	9.36	NP	0.00		
12/1/2004	NM	NM	NM	NM		
12/2/2005	NP	9.77	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
43-169						
3/2/2003	NP	9.91	NP	0.00	5.0 - 15.0	Sentinel well
6/2/2003	NP	9.38	NP	0.00		
9/4/2003	NP	9.46	NP	0.00		
12/15/2003	NP	9.30	NP	0.00		
3/8/2004	NP	9.54	NP	0.00		
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	NP	9.38	NP	0.00		
12/1/2004	NM	NM	NM	NM		
12/2/2005	NP	9.80	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RW-05-East (previously referred to as 43-RW-East)						
3/2/2003	12.89	17.90	5.01	0.80	NA	
6/2/2003	12.55	15.65	3.10	0.50		
9/4/2003	12.59	16.22	3.63	0.58		
12/15/2003	12.57	15.73	3.16	0.51		
3/8/2004	12.73	16.20	3.47	0.56		
6/23/2004	12.48	15.18	2.70	0.44		
9/20/2004	12.55	15.06	2.51	0.40		
12/1/2004	12.55	12.66	0.11	0.50		
12/2/2005	13.68	17.10	3.42	0.56		T.O.C. too deep - levels from surface
Total Estimated LNAPL Removed (gallons):				**4.84**		
RW-05-North (previously referred to as 43-RW-North)						
3/2/2003	12.51	15.40	2.89	0.46	NA	
6/2/2003	12.43	15.15	2.72	0.44		
9/4/2003	12.56	15.40	2.84	0.45		
12/15/2003	12.50	12.70	0.20	0.00		
3/8/2004	12.60	14.20	1.60	0.33		
6/23/2004	NM	NM	NM	0.00		Recovery pump in well for interim measure pumping test, unable to collect depth to water or depth to product
9/20/2004	NM	NM	NM			Recovery well damaged by skilled trades - no measurements
12/1/2004	NM	NM	NM	NM		
12/2/2005	13.33	15.80	2.47	0.40		
Total Estimated LNAPL Removed (gallons):				**2.08**		
RW-05-South (previously referred to as 43-RW-South)						
3/2/2003	NP	13.80	NP	0.00	NA	
6/2/2003	NP	13.46	NP	0.00		
9/4/2003	NP	13.57	NP	0.00		
12/15/2003	NP	13.47	NP	0.00		
3/8/2004	NP	13.55	NP	0.00		
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	NP	13.50	NP	0.00		
12/1/2004	NM	NM	NM	NM		
12/2/2005	NP	13.70	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		

Table X-10 AOI 05-1/05-5 Cutting Oil LNAPL Areas - 2003-2005
RACER Trust, Buick City Site, Flint, Michigan

Well ID and Date Measured	Depth to LNAPL (feet bgs)	Depth to Water (feet bgs)	LNAPL Thickness (feet)	Estimated Volume of LNAPL Bailed (gallons)	Screened Interval (feet bgs)	Comments
RFI-05-02						
3/2/2003	NP	13.71	NP	0.00	12.0 - 17.0	Sentinel well
6/2/2003	NP	13.32	NP	0.00		
9/4/2003	NP	13.42	NP	0.00		
12/15/2003	NP	13.31	NP	0.00		
3/8/2004	NP	13.45	NP	0.00		
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	NP	13.35	NP	0.00		
12/1/2004	NM	NM	NM	NM		
12/2/2005	NP	13.63	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-05-06						
3/2/2003	NP	11.99	NP	0.00	10.0 - 20.0	Sentinel well
6/2/2003	NP	11.67	NP	0.00		
9/4/2003	NP	11.79	NP	0.00		
12/15/2003	NP	11.69	NP	0.00		
3/8/2004	NP	11.78	NP	0.00		
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	NP	11.77	NP	0.00		
12/1/2004	NM	NM	NM	NM		
12/2/2005	NP	11.83	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-05-11						
3/2/2003	NM	NM	NM	0.00	12.5 - 17.5	
6/2/2003	NM	NM	NM	0.00		
9/4/2003	NM	NM	NM	0.00		Well cover scheduled to be repaired
12/15/2003	NM	NM	NM	0.00		Well not repaired, scheduled during shut down
3/8/2004	NM	NM	NM	0.00		Well still not repaired
6/23/2004	NM	NM	NM	0.00		Unable to open well, skilled trades scheduled to replace well cover during GM July shutdown
9/20/2004	13.21	16.15	1.94	0.32		
12/1/2004	13.19	15.80	2.61	0.42		
12/28/2005	13.22	16.35	3.13	0.51		
Total Estimated LNAPL Removed (gallons):				**1.25**		
RFI-05-13						
3/2/2003	13.18	16.35	3.17	0.51	11.0 - 16.0	
6/2/2003	12.68	16.35	3.67	0.59		
9/4/2003	13.00	NM	NA	0.00		Unable to gauge water, due to obstruction in well - obstruction to be removed
12/15/2003	12.62	16.20	3.58	0.57		
3/8/2004	13.45	14.05	0.60	0.10		
4/19/2004	13.45	14.05	0.60	0.10		
6/23/2004	12.48	16.10	3.62	0.59		
9/20/2004	12.74	16.02	3.28	0.56		
12/1/2004	12.72	16.09	3.37	0.54		
12/2/2005	13.11	16.35	3.24	0.53		16.35 depth to bottom
Total Estimated LNAPL Removed (gallons):				**4.09**		
RFI-05-14						
3/2/2003	13.41	15.43	2.02	0.32	12.0 - 17.0	
6/2/2003	12.74	14.71	1.97	0.32		
9/4/2003	13.01	15.67	2.66	0.43		
12/15/2003	12.62	14.50	1.88	0.30		
3/8/2004	13.32	15.13	1.81	0.30		
4/19/2004	13.32	15.13	1.81	0.30		
6/23/2004	12.37	14.32	1.95	0.32		
9/20/2004	12.70	14.69	1.99	0.32		
12/1/2004	12.70	14.57	1.87	0.30		
12/2/2005	13.32	15.22	1.90	0.31		
Total Estimated LNAPL Removed (gallons):				**3.21**		
RFI-05-21						
3/2/2003	NM	NM	NM	NM	8.0 - 18.0	Sentinel well
6/2/2003	NP	7.81	NP	0.00		
9/4/2003	NP	8.08	NP	0.00		
12/15/2003	NP	7.39	NP	0.00		Bentonite heave in well vault
3/8/2004	NP	7.56	NP	0.00		
12/1/2004	NM	NM	NM	NM		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-05-21R						
5/2/2004	NP	7.23	NP	0.00	4.0 - 14.0	Replacement well
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	NP	7.48	NP	0.00		
12/1/2004	NM	NM	NM	NM		
12/27/2005	NP	7.75	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		

Table X-11 AOI 36-5 Fuel Oil LNAPL Areas - 2003-2005
RACER Trust, Buick City Site, Flint, Michigan

Well ID and Date Measured	Depth to LNAPL (feet bgs)	Depth to Water (feet bgs)	LNAPL Thickness (feet)	Estimated Volume of LNAPL Bailed (gallons)	Screened Interval (feet bgs)	Comments
20-500						
3/2/2003	NP	10.40	NP	0.00	13.1 - 18.1	Sentinel well
6/2/2003	NP	9.33	NP	0.00		
9/4/2003	NP	9.66	NP	0.00		
12/15/2003	NP	8.75	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
20-500R						
12/15/2003	NP	8.98	NP	0.00	6.0 - 16.0	Supplemental well
3/8/2004	NP	8.78	NP	0.00		
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004); check replacement well only
9/20/2004	NP	8.61	NP	0.00		
12/1/2004	NM	NM	NM	NM		
12/8/2005	NP	9.65	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
20-502						
3/2/2003	11.22	13.15	1.93	0.31	9.5 - 14.5	
4/13/2003	10.70	12.10	1.40	0.22		
6/2/2003	10.35	12.10	1.75	0.28		
6/8/2003	10.33	12.33	2.00	0.32		
9/4/2003	11.24	12.21	0.97	0.16		
12/15/2003	9.68	11.75	2.07	0.33		
3/8/2004	9.73	11.50	1.77	0.29		
5/2/2004	9.20	11.08	1.88	0.31		
5/9/2004	8.02	10.21	2.19	0.36		
6/23/2004	8.69	11.40	2.71	0.44		
9/20/2004	9.40	12.50	3.10	0.50		
12/1/2004	9.63	11.02	1.39	0.22		
12/28/2005	10.31	11.94	1.63	0.27		
Total Estimated LNAPL Removed (gallons):				**4.01**		
20-503						
3/2/2003	12.22	13.04	0.82	0.13	10.9 - 15.9	
4/13/2003	11.80	12.45	0.65	0.10		
6/2/2003	11.56	12.18	0.62	0.10		
6/8/2003	11.55	12.00	0.45	0.07		
9/4/2003	10.45	11.97	1.52	0.24		
12/15/2003	10.72	12.09	1.37	0.22		
3/8/2004	10.73	11.70	0.97	0.16		
5/2/2004	10.55	11.70	1.15	0.19		
5/9/2004	9.63	10.54	0.91	0.15		
6/23/2004	10.10	11.86	1.76	0.29		
9/20/2004	10.53	12.15	1.62	0.26		
12/1/2004	10.68	11.73	1.05	0.17		
12/28/2005	11.36	12.75	1.39	0.23		
Total Estimated LNAPL Removed (gallons):				**2.32**		
20-506						
3/2/2003	NP	11.73	NP	0.00	9.9 - 14.9	Sentinel well
6/2/2003	NP	10.83	NP	0.00		
9/4/2003	NP	10.78	NP	0.00		
12/15/2003	NP	9.96	NP	0.00		
3/8/2004	NP	9.45	NP	0.00		
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	NP	9.51	NP	0.00		
12/1/2004	NM	NM	NM	NM		
12/8/2005	NP	10.65	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
37-RW-North						
3/2/2003	12.09	12.1	0.01	0.00	NA	
4/13/2003	11.42	11.43	0.01	0.00		
6/2/2003	10.97	10.98	0.01	0.00		
6/8/2003	10.95	10.96	0.01	0.00		
9/4/2003	11.15	11.16	0.01	0.00		Sheen
12/15/2003	10.26	10.27	0.01	0.00		Sheen
3/8/2004	NP	9.87	NP	0.00		
5/9/2004	NP	9.26	NP	0.00		
6/23/2004	9.22	9.23	0.01	0.00		
9/20/2004	9.91	10.60	0.69	0.11		
12/1/2004	9.80	9.81	0.01	0.00		
12/8/2005	11.02	11.05	0.03	0.00		
Total Estimated LNAPL Removed (gallons):				**0.11**		
37-RW-South						
3/2/2003	13.12	13.13	0.01	0.00	NA	
4/13/2003	13.60	13.61	0.01	0.00		
6/2/2003	13.86	13.86	0.00	0.00		Sheen
6/8/2003	13.85	13.86	0.01	0.00		
9/4/2003	NM	NM	NM	NM		Dry
12/15/2003	10.88	10.89	0.01	0.00		Sheen
3/8/2004	NP	10.54	NP	0.00		
5/9/2004	9.20	9.21	0.01	0.00		
6/23/2004	9.98	9.99	0.01	0.00		
9/20/2004	NP	10.61	NP	0.00		
12/1/2004	NP	9.73	NP	0.00		
12/8/2005	NP	11.54	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-36-13						
3/2/2003	NP	11.65	NP	0.00	9.0 - 19.0	
6/2/2003	NP	10.69	NP	0.00		
9/4/2003	NM	NM	NM	0.00		
12/15/2003	NP	8.10	NP	0.00		
3/8/2004	NP	10.24	NP	0.00		
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	NP	10.52	NP	0.00		
12/1/2004	NM	NM	NM	NM		
12/28/2005	NP	9.93	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-36-14						
3/2/2003	NP	11.32	NP	0.00	6.0 - 16.0	Sentinel well
6/2/2003	NP	8.68	NP	0.00		
9/4/2003	NP	9.11	NP	0.00		
12/15/2003	NP	8.21	NP	0.00		
3/8/2004	NP	7.54	NP	0.00		
6/23/2004	NM	NM	NM	NM		Monitor once per year (Sept. 2004)
9/20/2004	NP	7.52	NP	0.00		
12/1/2004	NM	NM	NM	NM		
12/8/2005	NP	8.87	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		

Table X-12 AOI 10-1/10-4 Hydraulic Oil LNAPL Areas - 2003-2005
RACER Trust, Buick City Site, Flint, Michigan

Well ID and Date Measured	Depth to LNAPL (feet bgs)	Depth to Water (feet bgs)	LNAPL Thickness (feet)	Estimated Volume of LNAPL Bailed (gallons)	Screened Interval (feet bgs)	Comments
20-145						
3/2/2003	NP	9.95	NP	0.00	8.5 - 13.5	Sentinel well
6/2/2003	NP	9.34	NP	0.00		
9/4/2003	NP	9.33	NP	0.00		
12/15/2003	NP	9.07	NP	0.00		
3/8/2004	NP	9.28	NP	0.00		
6/23/2004	NP	8.91	NP	0.00		
9/20/2004	NP	9.08	NP	0.00		
12/1/2004	NM	NM	NM	NM		
7/2005	NP	8.83	NP	0.00		
12/6/2005	NP	9.52	NP	0.00		No well cover
Total Estimated LNAPL Removed (gallons):				**0.00**		
20-160						
3/2/2003	NP	0.00	NP	0.00	11.0 - 16.0	Sentinel well - outside
6/2/2003	NP	11.87	NP	0.00		
9/4/2003	NP	12.08	NP	0.00		
12/15/2003	NP	11.70	NP	0.00		
3/8/2004	NP	11.48	NP	0.00		
6/23/2004	NP	11.05	NP	0.00		
9/20/2004	NP	11.23	NP	0.00		
12/1/2004	NM	NM	NM	NM		
7/2005	NP	11.40	NP	0.00		
12/6/2005	12.34	12.35	0.01	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
20-161						
6/2/2003	NM	NM	NM	0.00	14.0 - 19.0	Unable to locate
9/4/2003	NM	NM	NM	0.00		Unable to locate
12/15/2003	NM	NM	NM	0.00		Unable to locate
3/8/2004	NM	NM	NM	0.00		Unable to locate
6/23/2004	NM	NM	NM	0.00		Unable to locate - possibly destroyed
12/1/2004	NM	NM	NM	0.00		Unable to locate
Total Estimated LNAPL Removed (gallons):				**0.00**		
20-162						
3/2/2003	13.05	13.14	0.09	0.00	8.0 - 13.0	
6/2/2003	12.51	12.74	0.23	0.00		
9/4/2003	12.50	12.71	0.21	0.00		
12/15/2003	12.39	12.60	0.21	0.00		
3/8/2004	12.28	12.42	0.14	0.02		
6/23/2004	11.74	11.80	0.06	0.00		
9/20/2004	11.99	12.19	0.20	0.00		
12/1/2004	12.14	12.72	0.58	0.09		
7/2005	11.90	12.55	0.65	0.00		
12/12/2005	12.60	12.66	0.06	0.00		
Total Estimated LNAPL Removed (gallons):				**0.11**		
20-163						
3/2/2003	10.85	16.03	5.18	0.83	10.0 - 15.0	
6/2/2003	10.14	15.65	5.51	0.88		
9/4/2003	10.33	15.51	5.18	0.83		
12/15/2003	9.86	15.67	5.81	0.93		
3/8/2004	9.68	15.56	5.88	0.96		
6/23/2004	9.48	14.30	4.82	0.79		
9/20/2004	9.60	14.95	5.35	0.87		
12/1/2004	9.54	14.95	5.41	0.87		
7/2005	9.75	14.21	4.46	0.00		
12/13/2005	11.78	14.20	2.42	0.39		
Total Estimated LNAPL Removed (gallons):				**7.35**		
20-164						
3/2/2003	NP	13.42	NP	0.00	11.0 - 16.0	Well cover broken - to be replaced
6/2/2003	NP	11.34	NP	0.00		
9/4/2003	NP	12.13	NP	0.00		
12/15/2003	NP	12.62	NP	0.00		
3/8/2004	NP	12.90	NP	0.00		
6/23/2004	NP	10.55	NP	0.00		
9/20/2004	NP	11.30	NP	0.00		
12/1/2004	NM	NM	NM	NM		
7/2005	NP	13.00	NP	0.00		
12/13/2005	NP	12.39	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
20-167						
3/2/2003	NM	NM	NM	NM	16.0 - 21.0	Under permanent shelving inside
6/2/2003	NP	12.86	NP	0.00		
9/4/2003	NP	12.85	NP	0.00		
12/15/2003	NP	12.78	NP	0.00		
3/8/2004	NM	NM	NM	NM		Under permanent shelving inside
6/23/2004	NP	12.63	NP	0.00		
9/20/2004	NP	12.91	NP	0.00		
12/1/2004	NM	NM	NM	NM		
7/2005	12.73	13.46	0.73	0.00		
12/12/2005	NP	13.11	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
20-168						
3/2/2003	NM	NM	NM	NM	13.0 - 18.0	Under pallets inside
6/2/2003	NM	NM	NM	0.00		Unable to locate
9/4/2003	13.17	13.18	0.01	0.00		
12/15/2003	NM	NM	NM	NM		Steel racks installed and bolted to floor over top of the well
3/8/2004	13.09	13.13	0.04	0.00		
6/23/2004	NM	NM	NM	NM		Well covered with permanent shelving that has been bolted to
9/20/2004	13.12	13.63	0.51	0.08		
12/1/2004	NM	NM	NM	NM		
7/2005	NM	NM	NM	NM		
12/12/2005	13.26	15.01	1.75	0.29		
Total Estimated LNAPL Removed (gallons):				**0.37**		

Table X-12 AOI 10-1/10-4 Hydraulic Oil LNAPL Areas - 2003-2005
RACER Trust, Buick City Site, Flint, Michigan

Well ID and Date Measured	Depth to LNAPL (feet bgs)	Depth to Water (feet bgs)	LNAPL Thickness (feet)	Estimated Volume of LNAPL Bailed (gallons)	Screened Interval (feet bgs)	Comments
20-169						
3/2/2003	13.73	13.72	0.01	0.00	13.0 - 18.0	
6/2/2003	NP	13.23	NP	0.00		
9/4/2003	NP	13.24	NP	0.00		
12/15/2003	NP	13.70	NP	0.00		
3/8/2004	NP	13.00	NP	0.00		
6/23/2004	NP	12.75	NP	0.00		
9/20/2004	NP	13.02	NP	0.00		
12/1/2004	NM	NM	NM	NM		
7/2005	NP	12.72	NP	0.00		
12/12/2005	NP	13.78	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
20-170						
3/2/2003	9.38	9.46	0.08	0.00	7.8 - 12.8	
6/2/2003	NP	7.80	NP	0.00		
9/4/2003	NP	8.45	NP	0.00		
12/15/2003	NP	7.70	NP	0.00		
3/8/2004	NP	6.93	NP	0.00		
6/23/2004	NP	7.25	NP	0.00		
9/20/2004	NP	7.83	NP	0.00		
12/1/2004	NP	7.65	NP	0.00		
7/2005	NP	8.25	NP	0.00		
12/13/2005	9.42	9.44	0.02	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
20-FP4						
3/2/2003	NM	NM	NM	NM	6.0 - 15.8	Well destroyed by trenching - to be replaced
6/2/2003	NM	NM	NM	0.00		
9/4/2003	NM	NM	NM	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
20-FP4R						
12/15/2003	9.95	10.38	0.43	0.07	5.0 - 15.0	Replacement well
3/8/2004	9.70	10.21	0.51	0.08		
6/23/2004	9.29	9.49	0.20	0.00		
9/20/2004	9.60	11.00	1.40	0.23		
12/1/2004	7.30	8.64	1.34	0.21		
7/2005	9.26	9.87	0.61	0.00		
12/27/2005	10.04	10.48	0.44	0.00		
Total Estimated LNAPL Removed (gallons):				**0.59**		
20-FP6						
3/2/2003	NP	7.71	NP	0.00	10.0 - 14.8	
6/2/2003	NP	7.71	NP	0.00		
9/4/2003	NP	7.96	NP	0.00		
12/15/2003	NP	7.44	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
20-FP6R						
12/15/2003	NP	6.69	NP	0.00	5.0 - 15.0	Replacement well
3/8/2004	NP	7.04	NP	0.00		
6/23/2004	NP	6.35	NP	0.00		
9/20/2004	NP	6.96	NP	0.00		
12/1/2004	NP	7.46	NP	0.00		
7/2005	NP	7.32	NP	0.00		
12/8/2005	NP	8.15	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
20-FP7						
3/2/2003	9.66	9.90	0.24	0.00	4.0 - 13.8	
6/2/2003	8.06	9.07	1.01	0.16		
9/4/2003	8.55	9.54	0.99	0.16		
12/15/2003	7.83	9.43	1.60	0.26		
3/8/2004	7.43	9.20	1.77	0.29		
6/23/2004	7.14	8.95	1.81	0.30		
9/20/2004	7.70	10.45	2.75	0.45		
12/1/2004	7.55	8.77	1.22	0.20		
7/2005	7.82	9.02	1.20	0.00		
12/8/2005	10.14	11.44	1.30	0.21		
Total Estimated LNAPL Removed (gallons):				**2.03**		
20-FP8						
3/2/2003	9.28	9.67	0.39	0.00	4.0 - 13.8	
6/2/2003	NM	NM	NM	0.00		Under mulch pile - to be uncovered
9/4/2003	8.58	10.40	1.82	0.29		
12/15/2003	7.79	9.65	1.86	0.30		
3/8/2004	7.69	8.17	0.48	0.08		
6/23/2004	7.28	8.60	1.32	0.22		
9/20/2004	7.76	10.85	3.09	0.50		
12/1/2004	7.61	8.95	1.34	0.21		
7/1/2005	8.13	9.39	1.26	0.00		
12/8/2005	10.12	11.29	1.17	0.19		
Total Estimated LNAPL Removed (gallons):				**1.79**		
20-FP9						
3/2/2003	NP	10.34	NP	0.00	4.5 - 14.3	
6/2/2003	NM	NM	NM	0.00		Buried - stone pile
9/4/2003	NP	see comment	NP	0.00		Well destroyed IM trenching; PVC well visible but damaged beyond repair - well to be replaced; depth to water is 9.17 and no LNAPL present
Total Estimated LNAPL Removed (gallons):				**0.00**		
20-FP9R						
12/15/2003	NP	8.61	NP	0.00	5.0 - 15.0	Replacement well
3/8/2004	NP	8.07	NP	0.00		
6/23/2004	NP	7.70	NP	0.00		
9/20/2004	NP	8.20	NP	0.00		
12/1/2004	NM	NM	NM	NM		
7/2005	NM	NM	NM	NM		Buried - stone pile
12/27/2005	NP	9.81	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		

Table X-12 AOI 10-1/10-4 Hydraulic Oil LNAPL Areas - 2003-2005
RACER Trust, Buick City Site, Flint, Michigan

Well ID and Date Measured	Depth to LNAPL (feet bgs)	Depth to Water (feet bgs)	LNAPL Thickness (feet)	Estimated Volume of LNAPL Bailed (gallons)	Screened Interval (feet bgs)	Comments
20-FP10						
3/2/2003	NP	8.56	NP	0.00	3.5 - 13.3	
6/2/2003	NP	7.08	NP	0.00		
9/4/2003	NM	NM	NM	0.00		Damaged by railroad track removal, well to be replaced
12/15/2003	NP	6.80	NP	0.00		Riser bent ~1' bgs
3/8/2004	NM	NM	NM	0.00		Well damaged
6/23/2004	NP	6.23	NP	0.00		
9/20/2004	NP	6.76	NP	0.00		
12/1/2004	NM	NM	NM	NM		
7/2005	NP	6.61	NP	0.00		
12/8/2005	NM	NM	NM	NM		Well damaged, bent
Total Estimated LNAPL Removed (gallons):				**0.00**		
20-FP11						
3/2/2003	NP	5.55	NP	0.00	3.0 - 9.8	
6/2/2003	NP	0.00	NP	0.00		Destroyed - replaced by 20-FP11R
Total Estimated LNAPL Removed (gallons):				**0.00**		
20-FP11R						
9/4/2003	NP	4.69	NP	0.00	2.5 - 12.5	20-FP11 destroyed by IM trenching - replacement well installed
12/15/2003	NP	3.75	NP	0.00		
3/8/2004	NP	3.38	NP	0.00		
6/23/2004	NP	3.26	NP	0.00		
9/20/2004	NP	3.85	NP	0.00		
12/1/2004	NM	NM	NM	NM		
7/2005	NP	3.64	NP	0.00		
12/8/2005	NP	4.92	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-03-04						
3/2/2003	NP	8.79	NP	0.00	5.0 - 15.0	Sentinel well
6/2/2003	NP	5.72	NP	0.00		
9/4/2003	NP	6.20	NP	0.00		
12/15/2003	NP	5.73	NP	0.00		
3/8/2004	NP	5.29	NP	0.00		
6/23/2004	NP	5.38	NP	0.00		
9/20/2004	NP	5.97	NP	0.00		
12/1/2004	NM	NM	NM	NM		
7/2005	NP	6.18	NP	0.00		
12/8/2005	NP	7.20	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RW1-P1						
3/2/2003	12.21	12.66	0.45	0.07	NA	Missing well cover - to be replaced
6/2/2003	11.00	11.23	0.23	0.04		
9/4/2003	11.14	11.41	0.27	0.00		
12/15/2003	10.64	10.74	0.10	0.00		
3/8/2004	10.54	10.74	0.20	0.03		
4/19/2004	10.65	12.42	1.77	0.29		
6/23/2004	10.46	10.47	0.01	0.00		
9/20/2004	10.61	10.95	0.34	0.06		
12/1/2004	10.60	10.65	0.05	0.00		
7/2005	10.56	10.72	0.16	0.00		
12/8/2005	11.83	12.44	0.61	0.10		Very thick product; may be stuck on probe
Total Estimated LNAPL Removed (gallons):				**0.59**		
RW1-P2						
3/2/2003	11.49	16.58	5.09	0.81	NA	
6/2/2003	10.54	13.35	2.81	0.45		
9/4/2003	10.60	15.20	4.60	0.74		
12/15/2003	10.70	12.38	1.68	0.27		
3/8/2004	10.65	12.42	1.77	0.29		
6/23/2004	10.65	11.75	1.10	0.18		
9/20/2004	10.65	12.19	1.54	0.25		
12/1/2004	10.59	13.20	2.61	0.42		
7/2005	10.75	12.25	1.50	0.00		
12/8/2005	11.50	16.97	5.47	0.89		Very thick product; may be stuck on probe
Total Estimated LNAPL Removed (gallons):				**4.30**		

Table X-13 **AOI 36-1 & 36-2 LNAPL Areas - 2003-2005**
RACER Trust, Buick City Site, Flint, Michigan

Well ID and Date Measured	Depth to LNAPL (feet bgs)	Depth to Water (feet bgs)	LNAPL Thickness (feet)	Estimated Volume of LNAPL Bailed (gallons)	Screened Interval (feet bgs)	Comments
36-160						
3/2/2003	12.53	12.55	0.02	0.00	10.0 - 17.0	Covered
6/2/2003	11.13	11.14	0.01	0.00		
9/4/2003	11.33	11.55	0.22	0.00		
12/15/2003	10.96	10.97	0.01	0.00		
3/8/2004	10.45	10.60	0.15	0.00		
6/23/2004	9.50	10.20	0.70	0.11		
9/20/2004	7.60	9.55	1.95	0.31		
12/1/2004	12.62	14.11	1.49	0.24		
6/2005	7.03	9.63	2.60	0.00		
12/2/2005	8.25	10.68	2.43	0.40		
Total Estimated LNAPL Removed (gallons):				**1.06**		
36-FP2						
3/2/2003	NP	13.31	NP	0.00	8.0 - 17.8	Sentinel well
6/2/2003	NP	12.79	NP	0.00		
9/4/2003	NP	13.09	NP	0.00		
12/15/2003	NP	12.84	NP	0.00		
3/8/2004	NP	12.46	NP	0.00		
6/23/2004	NP	11.56	NP	0.00		
9/20/2004	11.41	12.20	0.79	0.13		
12/1/2004	11.87	13.28	1.41	0.00		
6/2005	11.38	11.93	0.55	0.00		
12/14/2005	12.43	13.72	1.29	0.21		
Total Estimated LNAPL Removed (gallons):				**0.34**		
36-FP3						
3/2/2003	12.02	12.90	0.88	0.14	8.0 - 17.8	
6/2/2003	11.53	12.21	0.68	0.11		
9/4/2003	11.84	12.90	1.06	0.15		
12/15/2003	11.60	12.32	0.72	0.12		
3/8/2004	11.22	12.17	0.95	0.15		
6/23/2004	10.08	11.24	1.16	0.19		
9/20/2004	10.25	11.74	1.49	0.25		
12/1/2004	10.79	11.19	0.40	0.06		
6/2005	10.15	10.16	0.01	0.00		
12/2/2005	11.31	12.19	0.88	0.14		
Total Estimated LNAPL Removed (gallons):				**1.30**		
36-FP4						
3/2/2003	16.38	16.50	0.12	0.00	11.5 - 21.3	
6/2/2003	15.95	15.95	0.00	0.00		Sheen
9/4/2003	15.26	15.28	0.02	0.00		
12/15/2003	NP	16.04	NP	0.00		
3/8/2004	NP	15.68	NP	0.00		
6/23/2004	NP	15.79	NP	0.00		
9/20/2004	NP	14.80	NP	0.00		
12/1/2004	NP	15.20	NP	0.00		
6/2005	NP	14.44	NP	0.00		
12/2/2005	15.61	15.65	0.04	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
36-FP6						
3/2/2003	10.41	12.75	2.34	0.37	5.0 - 14.8	
6/2/2003	8.30	14.04	5.74	0.92		
9/4/2003	9.31	14.22	4.91	0.79		
12/15/2003	8.83	14.35*	5.52	0.88		*Total well depth = 14.35' - no water in well
3/8/2004	8.50	14.35*	5.85	0.95		*Total well depth = 14.35' - no water in well
6/23/2004	7.55	13.30	5.75	0.94		
9/20/2004	7.95	14.35*	6.40	1.04		
12/1/2004	8.66	13.50	4.84	0.77		
6/2005	7.81	14.35*	6.54	0.00		*Total well depth = 14.35' - no water in well
12/2/2005	8.95	13.46	4.51	0.74		
Total Estimated LNAPL Removed (gallons):				**7.40**		
36-FP7						
3/2/2003	12.80	14.80	2.00	0.32	7.0 - 16.8	
6/2/2003	12.01	17.02	5.01	0.80		
9/4/2003	12.36	16.92	4.56	0.73		
12/15/2003	12.19	15.60	3.41	0.55		
3/8/2004	11.76	15.60	3.84	0.63		
6/23/2004	10.35	17.02	6.67	1.09		
9/20/2004	10.62	15.90	5.28	0.86		
12/1/2004	11.21	15.20	3.99	0.64		
6/2005	10.14	16.46	6.32	0.00		
12/13/2005	12.14	15.75	3.61	0.59		
Total Estimated LNAPL Removed (gallons):				**6.21**		
36-FP8						
3/2/2003	NP	9.48	NP	0.00	6.0 - 13.0	Sentinel well
6/2/2003	5.77	5.78	0.01	0.00		
9/4/2003	NP	8.38	NP	0.00		
12/15/2003	NP	7.80	NP	0.00		
3/8/2004	NP	7.62	NP	0.00		
6/23/2004	NP	6.82	NP	0.00		
9/20/2004	NP	7.39	NP	0.00		
12/1/2004	NM	NM	NM	0.00		
6/2005	NP	6.81	NP	0.00		
12/13/2005	NP	8.23	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		

Table X-13 AOI 36-1 & 36-2 LNAPL Areas - 2003-2005
RACER Trust, Buick City Site, Flint, Michigan

Well ID and Date Measured	Depth to LNAPL (feet bgs)	Depth to Water (feet bgs)	LNAPL Thickness (feet)	Estimated Volume of LNAPL Bailed (gallons)	Screened Interval (feet bgs)	Comments
RFI-36-04						
3/2/2003	NP	18.64	NP	0.00	18.1 - 23.1	Sentinel well
6/2/2003	NP	18.44	NP	0.00		
9/4/2003	NP	18.77	NP	0.00		
12/15/2003	NP	18.52	NP	0.00		
3/8/2004	NP	18.26	NP	0.00		
6/23/2004	NP	17.53	NP	0.00		
9/20/2004	NP	17.63	NP	0.00		
12/1/2004	NM	NM	NM	NM		
6/2005	NP	17.20	NP	0.00		Sheen
12/2/2005	NP	17.97	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-36-05						
3/2/2003	NP	17.85	NP	0.00	17.0 - 22.0	Sentinel well
6/2/2003	NP	17.43	NP	0.00		
9/4/2003	NP	17.80	NP	0.00		
12/15/2003	NP	17.53	NP	0.00		
3/8/2004	NP	17.17	NP	0.00		
6/23/2004	NP	16.30	NP	0.00		
9/20/2004	NP	16.40	NP	0.00		
12/1/2004	NM	NM	NM	0.00		
6/2005	NP	16.06	NP	0.00		
12/2/2005	NP	17.05	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-36-06						
3/2/2003	17.45	19.30	1.85	0.30	16.0 - 21.0	
6/2/2003	17.23	18.41	1.18	0.19		
9/4/2003	17.47	19.46	1.99	0.32		
1/23/2004	17.27	18.20	0.93	0.00		Asbestos removal action in area, no access to well on 12/15/2003
3/8/2004	16.95	18.20	1.25	0.20		
6/23/2004	NP	16.40	NP	0.00		
9/20/2004	16.21	16.93	0.71	0.12		
12/1/2004	16.60	17.91	1.31	0.00		
6/2005	16.01	16.54	0.53	0.00		
12/2/2005	16.75	18.34	1.59	0.26		
Total Estimated LNAPL Removed (gallons):				**1.38**		
RFI-36-07						
3/2/2003	14.92	16.40	1.48	0.24	15.0 - 20.0	
6/2/2003	NM	NM	NA	0.00		
9/4/2003	NM	NM	NA	0.00		Well cover to be replaced
12/15/2003	NM	NM	NA	0.00		Working with GM Skilled trades to open
3/8/2004	NM	NM	NA	0.00		Cover still damaged
6/23/2004	14.60	16.20	1.60	0.26		
9/20/2004	13.69	15.23	1.54	0.25		
12/1/2004	14.83	16.24	1.41	0.23		
6/2005	14.31	15.76	1.45	0.00		
12/2/2005	NM	NM	NM	NM		Damaged lid - ran over lid / can't open
Total Estimated LNAPL Removed (gallons):				**0.98**		
RFI-36-15						
3/2/2003	14.50	18.91	4.41	0.71	14.5 - 19.5	
6/2/2003	14.18	18.25	4.07	0.65		
9/4/2003	14.57	18.87	4.30	0.69		
12/15/2003	14.22	19.00	4.78	0.76		
3/8/2004	14.28	18.80	4.52	0.74		
6/23/2004	13.56	18.75	5.19	0.85		
9/20/2004	13.60	18.40	4.80	0.78		
12/1/2004	13.85	18.60	4.75	0.76		
6/2005	13.44	18.52	5.08	0.00		
12/2/2005	13.91	18.30	4.39	0.72		
Total Estimated LNAPL Removed (gallons):				**6.66**		
RFI-36-16						
3/2/2003	16.75	20.85	4.10	0.66	16.0 - 21.0	
6/2/2003	16.66	20.80	4.14	0.66		
9/4/2003	16.39	21.05	4.66	0.75		
12/15/2003	15.90	21.00	5.10	0.83		
3/8/2004	15.67	20.85	5.18	0.84		
6/23/2004	14.70	21.12	6.42	1.05		
9/20/2004	14.70	21.00	6.30	1.02		
12/1/2004	15.30	21.04	5.74	0.92		
6/2005	NM	NM	NM	NM		Well sealed, can not open
Total Estimated LNAPL Removed (gallons):				**6.72**		
RFI-36-21						
3/2/2003	17.23	18.46	1.23	0.20	13.5 - 18.5	
6/2/2003	16.85	17.60	0.75	0.12		
9/4/2003	17.23	17.58	0.35	0.10		
12/15/2003	16.95	17.45	0.50	0.08		
3/8/2004	16.40	17.78	1.38	0.22		
6/23/2004	15.60	17.60	2.00	0.33		
9/20/2004	15.62	17.60	1.98	0.32		
12/1/2004	14.15	17.59	3.44	0.55		
6/2005	15.27	17.69	2.42	0.00		
12/2/2005	16.36	17.31	0.95	0.15		
Total Estimated LNAPL Removed (gallons):				**2.07**		

Table X-13 AOI 36-1 & 36-2 LNAPL Areas - 2003-2005
RACER Trust, Buick City Site, Flint, Michigan

Well ID and Date Measured	Depth to LNAPL (feet bgs)	Depth to Water (feet bgs)	LNAPL Thickness (feet)	Estimated Volume of LNAPL Bailed (gallons)	Screened Interval (feet bgs)	Comments
RFI-36-22						
3/2/2003	13.91	16.74	2.83	0.45	12.0 - 17.0	
6/2/2003	13.81	16.76	2.95	0.47		
9/4/2003	14.00	16.77	2.77	0.44		
12/15/2003	13.82	16.77	2.95	0.47		
3/8/2004	15.23	17.00	1.77	0.29		
6/23/2004	13.55	16.90	3.35	0.55		
9/20/2004	13.45	16.90	3.45	0.56		
12/1/2004	13.60	16.80	3.20	0.51		
6/2005	13.42	16.89	3.47	0.00		
12/2/2005	13.62	16.71	3.10	0.51		
Total Estimated LNAPL Removed (gallons):				**4.26**		
RFI-36-23						
9/4/2003	14.58	14.70	0.12	0.00	12.0 - 17.0	Added LNAPL well
12/15/2003	14.49	14.60	0.11	0.00		
4/19/2004	14.24	14.35	0.11	0.00		
6/23/2004	13.80	13.88	0.08	0.00		
9/20/2004	13.65	13.68	0.03	0.00		
12/1/2004	14.00	14.10	0.10	0.00		
6/2005	13.70	13.77	0.07	0.00		
12/2/2005	14.15	14.72	0.57	0.09		
Total Estimated LNAPL Removed (gallons):				**0.09**		
RFI-36-27						
3/2/2003	17.86	19.52	1.66	0.27	16.0 - 22.0	
6/2/2003	17.71	18.64	0.93	0.15		Added LNAPL well
9/4/2003	17.95	19.38	1.43	0.23		
12/15/2003	17.73	18.79	1.06	0.17		
3/8/2004	NM	NM	NA	0.00		Can not open well
4/19/2004	NM	NM	NA	0.00		Can not open well
6/23/2004	NM	NM	NM	NM		Unable to open well, will attempt to have skilled trades replace well cover during GM July shutdown
9/20/2004	16.80	17.96	1.16	0.20		
12/1/2004	17.02	18.25	1.23	0.20		
6/2005	NM	NM	NM	NM		Can not open well
12/2/2005	17.12	18.45	1.33	0.22		
Total Estimated LNAPL Removed (gallons):				**1.43**		
RFI-36-29R						
3/2/2003	NP	15.70	NP	0.00	11.0 - 21.0	Sentinel well
6/2/2003	NP	15.92	NP	0.00		
9/4/2003	NP	16.22	NP	0.00		
12/15/2003	NP	15.36	NP	0.00		
3/8/2004	NP	15.14	NP	0.00		
6/23/2004	NP	14.66	NP	0.00		
9/20/2004	NP	14.25	NP	0.00		
12/1/2004	NM	NM	NM	0.00		
6/2005	14.56	15.42	0.86	0.00		
12/27/2005	15.07	16.07	1.00	0.16		
Total Estimated LNAPL Removed (gallons):				**0.16**		
RFI-36-43						
6/2/2003	NM	NM	NM	0.00	10.0 - 20.0	Added LNAPL well/soil boring
9/4/2003	13.53	14.03	0.50	0.08		
12/15/2003	13.44	13.82	0.38	0.06		
4/19/2004	13.17	13.45	0.28	0.00		
6/23/2004	NM	NM	NM	NM		Unable to access due to engine storage racks, fork truck drivers not available to move racks; will attempt to re-gauge after GM July shutdown
9/20/2004	12.70	12.72	0.02	0.00		
12/1/2004	sheen	13.01	sheen	0.00		
6/2005	NP	12.36	NP	0.00		
12/2/2005	15.53	16.51	0.98	0.16		
Total Estimated LNAPL Removed (gallons):				**0.30**		
RFI-36-49						
4/13/2003	18.29	18.30	0.01	0.00	15.0 - 25.0	
6/2/2003	18.18	18.20	0.02	0.00		
6/8/2003	18.13	18.16	0.03	0.00		
9/4/2003	18.47	19.10	0.63	0.10		Added LNAPL well
12/15/2003	18.10	19.51	1.41	0.23		
4/19/2004	17.85	18.61	0.76	0.12		
6/23/2004	17.29	17.70	0.41	0.08		
9/20/2004	17.09	17.72	0.63	0.10		
12/1/2004	17.99	18.33	0.34	0.09		
6/2005	17.08	17.70	0.62	0.00		
12/2/2005	17.65	18.59	0.94	0.15		
Total Estimated LNAPL Removed (gallons):				**0.87**		

Table X-14 AOI 83/84 LNAPL Areas - 2003-2005
RACER Trust, Buick City Site, Flint, Michigan

Well ID and Date Measured	Depth to LNAPL (feet bgs)	Depth to Water (feet bgs)	LNAPL Thickness (feet)	Estimated Volume of LNAPL Bailed (gallons)	Screened Interval (feet bgs)	Comments
RFI-83/84-04						
3/19/2003	10.33	10.49	0.16	0.00	11.0 - 16.0	Add to program
6/2/2003	10.15	10.27	0.12	0.00		
9/4/2003	10.18	NM	NA	0.00		Obstruction at 10.3 bgs
12/15/2003	10.24	10.34	0.10	0.00		
4/19/2004	10.05	10.30	0.25	0.04		
6/23/2004	10.07	10.20	0.13	0.00		
9/20/2004	10.06	10.18	0.12	0.00		
12/1/2004	9.59	9.65	0.06	0.00		
6/2005	NM	NM	NM	NM		No access, health & safety concern
Total Estimated LNAPL Removed (gallons):				**0.04**		
RFI-83/84-06						
3/2/2003	11.11	13.00	1.89	0.30	7.0 - 17.0	
6/2/2003	10.87	12.80	1.93	0.31		
9/4/2003	10.98	12.99	2.01	0.32		
12/15/2003	10.83	12.78	1.95	0.31		
3/8/2004	10.79	12.95	2.16	0.35		
6/23/2004	10.50	12.50	2.00	0.33		
9/20/2004	10.66	12.50	1.84	0.30		
12/1/2004	10.30	12.91	2.61	0.41		
6/2005	NM	NM	NM	NM		No access, health & safety concern
Total Estimated LNAPL Removed (gallons):				**2.63**		
RFI-83/84-07						
3/2/2003	10.87	12.92	2.05	0.33	8.8 - 18.8	
6/2/2003	10.49	10.78	0.29	0.00		
9/4/2003	10.66	12.03	1.37	0.22		
12/15/2003	10.50	11.85	1.35	0.22		
3/8/2004	10.68	11.97	1.29	0.21		
6/23/2004	10.40	11.50	1.10	0.18		
9/20/2004	10.39	11.63	1.24	0.20		
12/1/2004	NP	10.25	NP	0.00		
6/2005	NM	NM	NM	NM		No access, health & safety concern
Total Estimated LNAPL Removed (gallons):				**1.35**		
RFI-83/84-11						
3/2/2003	NP	7.93	NP	0.00	5.0 - 15.0	Well removed from monitoring program
3/8/2004	NP	7.37	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-83/84-26						
4/13/2003	NM	NM	NM	NM	8.0 - 18.0	Sentinel well
6/2/2003	NM	NM	NM	0.00		
9/4/2003	NP	10.76	NP	0.00		
12/15/2003	NP	10.68	NP	0.00		
6/23/2004	NM	NM	NM	NM		Pallets located on well, fork truck driver not available to move
9/20/2004	NP	10.49	NP	0.00		
12/1/2004	NM	NM	NM	NM		
6/2005	NM	NM	NM	NM		No access, health & safety concern
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-83/84-27						
3/2/2003	NP	13.02	NP	0.00	8.0 - 18.0	Sentinel well
6/2/2003	NP	12.88	NP	0.00		
9/4/2003	NP	12.91	NP	0.00		
1/23/2004	NP	12.75	NP	0.00		Unable to gauge in December 2003 due to equipment racks over
3/8/2004	NP	12.76	NP	0.00		
6/23/2004	NP	12.64	NP	0.00		
9/20/2004	NP	12.81	NP	0.00		
12/1/2004	NM	NM	NM	NM		
6/2005	NM	NM	NM	NM		No access, health & safety concern
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-83/84-44						
4/13/2003	NP	10.70	NP	0.00	8.0 - 18.0	Sentinel well
6/2/2003	NP	10.63	NP	0.00		
6/8/2003	NP	10.60	NP	0.00		
9/4/2003	NP	10.73	NP	0.00		
12/15/2003	NP	10.72	NP	0.00		
6/23/2004	NP	10.52	NP	0.00		
9/20/2004	NP	10.54	NP	0.00		
12/1/2004	NM	NM	NM	NM		
6/2005	NM	NM	NM	NM		No access, health & safety concern
Total Estimated LNAPL Removed (gallons):				**0.00**		

Table X-14 AOI 83/84 LNAPL Areas - 2003-2005
RACER Trust, Buick City Site, Flint, Michigan

Well ID and Date Measured	Depth to LNAPL (feet bgs)	Depth to Water (feet bgs)	LNAPL Thickness (feet)	Estimated Volume of LNAPL Bailed (gallons)	Screened Interval (feet bgs)	Comments
RFI-83/84-45						
4/13/2003	10.52	11.15	0.63	0.10	8.0 - 18.0	
6/2/2003	10.40	11.19	0.79	0.00		
9/4/2003	10.51	11.55	1.04	0.17		
12/15/2003	10.46	11.59	1.13	0.18		
4/19/2004	10.68	11.84	1.16	0.19		
6/23/2004	10.25	11.35	1.10	0.18		
9/20/2004	10.25	11.35	1.10	0.18		
12/1/2004	10.09	10.99	0.90	0.14		
6/2005	NM	NM	NM	NM		No access, health & safety concern
Total Estimated LNAPL Removed (gallons):				**1.14**		
RFI-83/84-46						
4/13/2003	NP	10.54	NP	0.00	8.0 - 18.0	Sentinel well
6/2/2003	NP	10.45	NP	0.00		
6/8/2003	NP	10.43	NP	0.00		
9/4/2003	NP	10.54	NP	0.00		
12/15/2003	NP	10.56	NP	0.00		
6/23/2004	NP	10.31	NP	0.00		
9/20/2004	NP	10.31	NP	0.00		
12/1/2004	NM	NM	NM	NM		
6/2005	NM	NM	NM	NM		No access, health & safety concern
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-83/84-48						
4/13/2003	NP	10.18	NP	0.00	7.5 - 17.5	Sentinel well
6/2/2003	NP	10.15	NP	0.00		
6/8/2003	NP	10.12	NP	0.00		
9/4/2003	NP	10.03	NP	0.00		
12/15/2003	NP	10.08	NP	0.00		
6/23/2004	NP	9.85	NP	0.00		
9/20/2004	NP	9.88	NP	0.00		
12/1/2004	NM	NM	NM	NM		
6/2005	NM	NM	NM	NM		No access, health & safety concern
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-83/84-49						
4/30/2003	NM	NM	NM	NM	8.0 - 18.0	
6/2/2003	10.25	13.52	3.27	0.52		
9/4/2003	10.30	14.21	3.91	0.63		
12/15/2003	10.14	14.45	4.31	0.69		
4/19/2004	10.20	14.05	3.85	0.63		
6/23/2004	9.90	13.55	3.65	0.59		
9/20/2004	10.03	13.78	3.75	0.61		
12/1/2004	9.75	13.81	4.06	0.65		
6/2005	NM	NM	NM	NM		No access, health & safety concern
Total Estimated LNAPL Removed (gallons):				**4.32**		
RFI-83/84-51						
4/13/2003	NP	6.99	NP	0.00	7.0 - 17.0	Sentinel well
6/2/2003	NP	6.96	NP	0.00		
6/8/2003	NP	6.95	NP	0.00		
9/4/2003	NP	7.08	NP	0.00		
12/15/2003	NP	7.05	NP	0.00		
6/23/2004	NP	6.90	NP	0.00		
9/20/2004	NP	6.87	NP	0.00		
12/1/2004	NM	NM	NM	NM		
6/2005	NM	NM	NM	NM		No access, health & safety concern
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-83/84-53						
4/13/2003	NM	NM	NM	NM	7.0 - 17.0	Sentinel well
6/2/2003	NM	NM	NM	NM		
9/4/2003	NP	10.38	NP	0.00		
12/15/2003	NP	10.30	NP	0.00		
6/23/2004	NP	9.92	NP	0.00		
9/20/2004	NP	10.06	NP	0.00		
12/1/2004	NM	NM	NM	NM		
6/2005	NM	NM	NM	NM		No access, health & safety concern
Total Estimated LNAPL Removed (gallons):				**0.00**		

Table X-15 AOI 09-B LNAPL Areas - 2003-2005
RACER Trust, Buick City Site, Flint, Michigan

Well ID and Date Measured	Depth to LNAPL (feet bgs)	Depth to Water (feet bgs)	LNAPL Thickness (feet)	Estimated Volume of LNAPL Bailed (gallons)	Screened Interval (feet bgs)	Comments
31-7						
3/2/2003	9.04	9.28	0.24	0.00	6.0 - 16.0	
4/13/2003	7.73	7.90	0.17	0.03		
6/2/2003	7.10	7.30	0.20	0.00		
9/4/2003	7.71	8.15	0.44	0.07		
12/15/2003	6.99	7.74	0.75	0.12		
3/8/2004	6.87	7.65	0.78	0.13		
6/23/2004	6.82	7.66	0.84	0.14		
9/20/2004	7.40	8.38	0.98	0.16		
12/1/2004	4.25	5.15	0.90	0.14		
6/2005	6.96	7.96	1.00	0.00		
12/28/2005	6.32	7.33	1.01	0.16		
Total Estimated LNAPL Removed (gallons):				**0.95**		
31-8						
6/2/2003	NP	7.76	NP	0.00	5.0 - 15.0	Added LNAPL well
9/4/2003	NP	7.88	NP	0.00		Added LNAPL well
12/15/2003	8.02	9.03	1.01	0.16		
6/23/2004	8.31	8.32	0.01	0.00		
9/20/2004	8.33	8.34	0.01	0.00		
12/1/2004	NP	7.48	NP	0.00		
6/2005	NP	7.86	NP	0.00		
12/28/2005	NP	8.24	NP	0.00		Strong Odor
Total Estimated LNAPL Removed (gallons):				**0.16**		
RFI-09-40R						
3/2/2003	9.33	9.66	0.33	0.00	7.0 - 17.0	
6/2/2003	7.34	7.78	0.44	0.07		
9/4/2003	8.02	8.64	0.62	0.10		
12/15/2003	7.40	8.32	0.92	0.15		
3/8/2004	6.94	8.60	1.66	0.27		
6/23/2004	6.36	9.13	2.77	0.45		
9/20/2004	6.97	9.75	2.78	0.45		
12/1/2004	6.98	8.19	1.21	0.19		
6/2005	6.77	9.89	3.12	0.00		
12/28/2005	NP	6.44	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**1.68**		
RFI-09-44						
3/2/2003	NP	9.25	NP	0.00	5.0 - 15.0	Sentinel well
6/2/2003	NP	6.59	NP	0.00		
9/4/2003	NP	7.67	NP	0.00		
12/15/2003	NP	5.95	NP	0.00		
3/8/2004	NP	5.75	NP	0.00		
6/23/2004	NP	5.58	NP	0.00		
9/20/2004	NP	6.38	NP	0.00		
12/1/2004	NM	NM	NM	0.00		
6/2005	NP	6.06	NP	0.00		
12/28/2005	NP	5.63	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-09-45R						
3/2/2003	NP	9.18	NP	0.00	5.0 - 15.0	Sentinel well
6/2/2003	NP	5.82	NP	0.00		
9/4/2003	NP	7.11	NP	0.00		
12/15/2003	NP	5.57	NP	0.00		
3/8/2004	NP	5.07	NP	0.00		
6/23/2004	NP	5.20	NP	0.00		
9/20/2004	NP	6.73	NP	0.00		
12/1/2004	NM	NM	NM	0.00		
6/2005	NM	NM	NM	0.00		Could not locate well
12/28/2005	NP	3.00	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-09-47						
3/2/2003	8.92	9.39	0.47	0.08	6.5 - 16.5	Sentinel well
6/2/2003	7.60	7.90	0.30	0.05		
9/4/2003	7.44	8.98	1.54	0.25		
12/15/2003	6.59	7.67	1.08	0.17		
3/8/2004	6.69	8.38	1.69	0.28		
6/23/2004	6.18	8.86	2.68	0.44		
9/20/2004	7.18	9.10	1.92	0.31		
12/1/2004	NP	6.95	NP	0.00		
6/2005	6.65	9.09	2.44	0.00		
12/28/2005	7.30	8.78	1.48	0.24		
Total Estimated LNAPL Removed (gallons):				**1.81**		
RFI-09-52						
9/4/2003	NP	8.42	NP	0.00	5.0 - 15.0	Added LNAPL well
12/15/2003	NP	7.82	NP	0.00		
6/23/2004	NP	7.70	NP	0.00		
9/20/2004	NP	8.29	NP	0.00		
12/1/2004	NM	NM	NM	0.00		
6/2005	NP	7.94	NP	0.00		
12/28/2005	NP	7.29	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		

Table X-16 AOI 12-A, B & C Hydraulic Oil LNAPL Areas - 2003-2005
RACER Trust, Buick City Site, Flint, Michigan

Well ID and Date Measured	Depth to LNAPL (feet bgs)	Depth to Water (feet bgs)	LNAPL Thickness (feet)	Estimated Volume of LNAPL Bailed (gallons)	Screened Interval (feet bgs)	Comments
RFI-02-05						
3/2/2003	NP	7.04	NP	0.00	2.8 - 7.8	Sentinel well
6/2/2003	NP	3.94	NP	0.00		
9/4/2003	NP	4.33	NP	0.00		
12/15/2003	NP	3.48	NP	0.00		
6/23/2004	NP	2.35	NP	0.00		
9/20/2004	NP	3.96	NP	0.00		
12/1/2004	NP	1.96	NP	0.00		
6/2005	NP	3.02	NP	0.00		
12/22/2005	NP	4.03	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-12-01R						
3/2/2003	NM	NM	NM	NM	5.0 - 15.0	Sentinel well
6/2/2003	11.40	11.54	0.14	0.00		
6/8/2003	NP	8.59	NP	0.00		
9/4/2003	12.41	12.92	0.51	0.08		
12/15/2003	NP	6.72	NP	0.00		
3/8/2004	5.52	5.56	0.04	0.00		
5/2/2004	5.96	5.97	0.01	0.00		
5/9/2004	4.00	4.01	0.01	0.00		
6/23/2004	4.35	4.37	0.02	0.00		
9/20/2004	5.81	6.00	0.19	0.00		
12/1/2004	4.81	4.84	0.03	0.00		
6/2005	4.71	4.77	0.06	0.00		
12/2/2005	5.78	7.50	1.72	0.28		
Total Estimated LNAPL Removed (gallons):				**0.36**		
RFI-12-02						
6/8/2003	6.00	6.95	0.95	0.15	10.0 - 20.0	
Total Estimated LNAPL Removed (gallons):				**0.15**		
RFI-12-02R						
6/2/2003	7.77	9.60	1.83	0.29	10.0 - 20.0	Added LNAPL well
9/4/2003	8.08	8.15	0.07	0.00		Recovery system set up on well
12/15/2003	5.84	5.96	0.12	0.00		
3/8/2004	10.35	11.85	1.50	0.24		
5/2/2004	5.46	5.50	0.04	0.00		
5/9/2004	1.90	1.91	0.01	0.00		
6/23/2004	5.02	5.04	0.02	0.00		
9/20/2004	NP	5.60	NP	0.00		
12/1/2004	5.10	5.13	0.03	0.00		
6/2005	4.66	5.32	0.66	0.00		
12/22/2005	5.35	5.90	0.55	0.09		Very thick product
Total Estimated LNAPL Removed (gallons):				**0.62**		
RFI-12-07						
6/2/2003	NP	8.71	NP	0.00	10.0 - 20.0	Added Sentinel well
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-12-07R						
6/8/2003	NP	8.54	NP	0.00	10.0 - 20.0	
9/4/2003	NP	7.80	NP	0.00		Added Sentinel well
12/15/2003	NP	5.32	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-12-07R2						
12/15/2003	NP	5.10	NP	0.00	3.0 - 13.0	Supplemental well
3/8/2004	NP	4.67	NP	0.00		
5/2/2004	NP	4.40	NP	0.00		
5/9/2004	NP	3.61	NP	0.00		
6/23/2004	NP	3.56	NP	0.00		Check R2 replacement well only
9/20/2004	NP	4.60	NP	0.00		
12/1/2004	NP	3.65	NP	0.00		
6/2005	NP	3.58	NP	0.00		
12/2/2005	NP	3.94	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-12-08R						
6/2/2003	11.52	11.53	0.01	0.00	10.0 - 20.0	Added LNAPL well
6/8/2003	11.09	11.11	0.02	0.00		
9/4/2003	9.90	9.92	0.02	0.00		Added LNAPL well
12/15/2003	6.83	6.85	0.02	0.00		
3/8/2004	7.52	7.54	0.02	0.00		
5/2/2004	7.71	7.72	0.01	0.00		
5/9/2004	6.46	6.47	0.01	0.00		
6/23/2004	6.17	6.18	0.01	0.00		
9/20/2004	NP	7.34	NP	0.00		
12/1/2004	6.51	6.55	0.04	0.00		
6/2005	8.03	8.12	0.09	0.00		
12/2/2005	7.41	7.56	0.15	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-12-09						
6/2/2003	5.42	6.73	1.31	0.00	7.0 - 17.0	Added LNAPL well
6/8/2003	5.23	6.89	1.66	0.27		
9/4/2003	5.56	6.99	1.43	0.23		Added LNAPL Well
12/15/2003	4.65	7.18	2.53	0.40		
Total Estimated LNAPL Removed (gallons):				**0.90**		

Table X-16 AOI 12-A, B & C Hydraulic Oil LNAPL Areas - 2003-2005
RACER Trust, Buick City Site, Flint, Michigan

Well ID and Date Measured	Depth to LNAPL (feet bgs)	Depth to Water (feet bgs)	LNAPL Thickness (feet)	Estimated Volume of LNAPL Bailed (gallons)	Screened Interval (feet bgs)	Comments
RFI-12-09R						
12/15/2003	4.97	4.98	0.01	0.00	3.0 - 13.0	Supplemental well
3/8/2004	NP	4.53	NP	0.00		
5/2/2004	NP	4.61	NP	0.00		
5/9/2004	NP	4.28	NP	0.00		
6/23/2004	4.15	4.16	0.01	0.00		Check replacement well only
9/20/2004	NP	4.71	NP	0.00		
12/1/2004	4.24	4.29	0.05	0.00		
6/2005	4.40	4.44	0.04	0.00		
12/2/2005	4.75	4.79	0.04	0.00		Oil remains on probe into water
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-12-11D						
3/2/2003	13.59	19.00	5.41	0.87	18.0 - 23.0	
6/2/2003	11.59	12.25	0.66	0.11		
6/8/2003	11.28	11.47	0.19	0.03		
9/4/2003	11.81	11.82	0.01	0.00		Recovery system set up on well
12/15/2003	9.49	10.60	1.11	0.18		
3/8/2004	9.15	9.21	0.06	0.00		
5/2/2004	9.10	9.35	0.25	0.04		
5/9/2004	8.80	8.99	0.19	0.03		
6/23/2004	7.70	8.22	0.52	0.08		
9/20/2004	NP	9.81	NP	0.00		
12/1/2004	8.61	10.47	1.86	0.00		
6/2005	7.21	11.16	3.95	0.00		
12/2/2005	NP	9.18	NP	0.00		Sheen on probe
Total Estimated LNAPL Removed (gallons):				**1.33**		
RFI-12-11S						
3/2/2003	NP	7.05	NP	0.00	4.5 - 14.5	
6/2/2003	NP	6.24	NP	0.00		
6/8/2003	NP	5.87	NP	0.00		
9/4/2003	NP	6.56	NP	0.00		
12/15/2003	NP	5.06	NP	0.00		
3/8/2004	NP	4.59	NP	0.00		
5/2/2004	NP	4.68	NP	0.00		
5/9/2004	NP	4.30	NP	0.00		
6/23/2004	NP	4.17	NP	0.00		
9/20/2004	NP	4.70	NP	0.00		
12/1/2004	NP	4.39	NP	0.00		
6/2005	NP	4.55	NP	0.00		
12/2/2005	NP	4.85	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-12-14						
3/2/2003	14.35	14.36	0.01	0.00	12.5 - 22.5	
6/2/2003	NP	8.95	NP	0.00		
6/8/2003	NP	8.77	NP	0.00		
9/4/2003	NP	8.93	NP	0.00		
12/15/2003	NP	5.51	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-12-14R						
12/15/2003	NP	5.64	NP	0.00	3.0 - 13.0	Supplemental well
3/8/2004	NP	5.02	NP	0.00		
5/2/2004	NP	5.18	NP	0.00		
5/9/2004	4.75	4.76	0.01	0.00		
6/23/2004	NP	4.46	NP	0.00		Check replacement well only
9/20/2004	NP	5.07	NP	0.00		
12/1/2004	NP	4.92	NP	0.00		
6/2005	NP	4.95	NP	0.00		
12/2/2005	NP	5.40	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-12-15						
3/2/2003	NP	10.15	NP	0.00	7.8 - 17.8	Sentinel well
6/2/2003	NP	8.94	NP	0.00		
6/8/2003	NP	8.67	NP	0.00		
9/4/2003	NP	8.77	NP	0.00		
12/15/2003	NP	6.62	NP	0.00		
3/8/2004	NP	6.35	NP	0.00		
5/2/2004	NP	6.24	NP	0.00		
5/9/2004	NP	5.54	NP	0.00		
6/23/2004	NP	5.11	NP	0.00		
9/20/2004	NP	5.98	NP	0.00		
12/1/2004	NP	6.08	NP	0.00		
6/2005	NP	5.45	NP	0.00		
12/22/2005	6.51	6.52	0.01	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-12-22						
6/2/2003	9.07	9.40	0.33	0.05	11.0 - 21.0	Added LNAPL well
6/8/2003	9.00	9.10	0.10	0.02		
9/4/2003	8.39	8.48	0.09	0.00		Added LNAPL well
12/15/2003	5.64	5.84	0.20	0.00		
Total Estimated LNAPL Removed (gallons):				**0.07**		

Table X-16 AOI 12-A, B & C Hydraulic Oil LNAPL Areas - 2003-2005
RACER Trust, Buick City Site, Flint, Michigan

Well ID and Date Measured	Depth to LNAPL (feet bgs)	Depth to Water (feet bgs)	LNAPL Thickness (feet)	Estimated Volume of LNAPL Bailed (gallons)	Screened Interval (feet bgs)	Comments
RFI-12-22R						
12/15/2003	5.40	5.41	0.01	0.00	3.0 - 13.0	Supplemental well
3/8/2004	5.04	5.20	0.16	0.00		
5/2/2004	5.49	5.60	0.11	0.00		
5/9/2004	4.42	4.53	0.11	0.00		
6/23/2004	NP	3.80	NP	0.00		Check replacement well only
9/20/2004	NP	4.75	NP	0.00		
12/1/2004	NP	4.10	NP	0.00		
6/2005	NP	3.94	NP	0.00		
12/2/2005	4.64	4.72	0.08	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-12-23						
4/13/2003	12.68	12.90	0.22	0.04	8.0 - 18.0	
6/2/2003	12.13	12.20	0.07	0.00		Added LNAPL well
6/8/2003	11.35	11.65	0.30	0.05		
9/4/2003	11.86	13.07	1.21	0.19		Added LNAPL well
12/15/2003	9.28	11.05	1.77	0.28		
3/8/2004	9.56	11.36	1.80	0.29		
5/2/2004	9.67	11.03	1.36	0.22		
5/9/2004	8.09	9.21	1.12	0.20		
6/23/2004	8.19	9.47	1.28	0.21		
9/20/2004	NP	11.80	NP	0.00		
12/1/2004	8.78	11.06	2.28	0.36		
6/2005	8.08	10.85	2.77	0.00		
12/2/2005	9.09	9.81	0.72	0.12		
Total Estimated LNAPL Removed (gallons):				**1.96**		
RFI-12-24						
4/13/2003	NP	6.83	NP	0.00	5.5 - 15.5	
6/2/2003	NP	7.02	NP	0.00		Added Sentinel well
6/8/2003	NP	6.80	NP	0.00		
9/4/2003	NP	7.18	NP	0.00		Added Sentinel well
12/15/2003	NP	4.26	NP	0.00		
3/8/2004	NP	4.54	NP	0.00		
5/2/2004	NP	4.41	NP	0.00		
5/9/2004	NP	3.45	NP	0.00		
6/23/2004	NP	3.67	NP	0.00		
9/20/2004	NP	4.50	NP	0.00		
12/1/2004	NP	3.71	NP	0.00		
6/2005	NP	3.90	NP	0.00		
12/22/2005	NP	4.58	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-12-25						
4/13/2003	NP	8.07	NP	0.00	7.0 - 17.0	
6/2/2003	NP	8.23	NP	0.00		Added Sentinel well
6/8/2003	NP	7.91	NP	0.00		
9/4/2003	NP	7.56	NP	0.00		Added Sentinel well
12/15/2003	NP	4.85	NP	0.00		
3/8/2004	NP	5.87	NP	0.00		
5/2/2004	NP	4.76	NP	0.00		
5/9/2004	NP	3.65	NP	0.00		
6/23/2004	NP	4.06	NP	0.00		
9/20/2004	NP	4.70	NP	0.00		
12/1/2004	NP	4.38	NP	0.00		
6/2005	NP	4.59	NP	0.00		
12/22/2005	NP	5.14	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-12-26						
4/13/2003	8.21	8.22	0.01	0.00	10.0 - 20.0	
6/2/2003	7.98	8.03	0.05	0.00		Added LNAPL well
6/8/2003	7.60	7.72	0.12	0.02		
9/4/2003	7.52	7.91	0.39	0.06		Added LNAPL well
12/15/2003	5.43	5.80	0.37	0.06		
3/8/2004	5.11	5.24	0.13	0.02		
5/2/2004	NM	NM	NM	0.00		Well under water
5/9/2004	3.98	4.05	0.07	0.00		
6/23/2004	4.15	4.24	0.09	0.00		
9/20/2004	NP	4.89	NP	0.00		
12/1/2004	4.82	4.93	0.11	0.00		
6/2005	4.21	4.36	0.15	0.00		
12/22/2005	5.20	5.50	0.30	0.00		Very thick product
Total Estimated LNAPL Removed (gallons):				**0.16**		
RFI-12-27						
9/4/2003	NP	4.09	NP	0.00	4.0 -14.0	Added step-out well
12/15/2003	NP	1.23	NP	0.00		
3/8/2004	NP	0.91	NP	0.00		
5/2/2004	NP	0.62	NP	0.00		
5/9/2004	NM	NM	NM	0.00		Well under water
6/23/2004	NP	0.10	NP	0.00		
9/20/2004	NP	0.34	NP	0.00		
12/1/2004	NM	NM	NM	0.00		Well under water
6/2005	NM	NM	NM	0.00		Well under water
12/2/2005	NM	NM	NM	NM		Water overflowing top of casing, well under water, J-plug was loose
Total Estimated LNAPL Removed (gallons):				**0.00**		

Table X-16 AOI 12-A, B & C Hydraulic Oil LNAPL Areas - 2003-2005
RACER Trust, Buick City Site, Flint, Michigan

Well ID and Date Measured	Depth to LNAPL (feet bgs)	Depth to Water (feet bgs)	LNAPL Thickness (feet)	Estimated Volume of LNAPL Bailed (gallons)	Screened Interval (feet bgs)	Comments
RFI-12-28						
9/4/2003	11.16	11.20	0.04	0.00	11.5 - 21.5	Added step-out well
12/15/2003	11.20	11.26	0.06	0.00		
3/8/2004	5.28	6.31	1.03	0.17		
5/2/2004	9.81	11.75	1.94	0.32		
5/9/2004	9.35	11.60	2.25	0.38		
6/23/2004	8.82	9.10	0.28	0.00		
9/20/2004	NP	12.35	NP	0.00		
12/1/2004	9.61	12.93	3.32	0.53		
6/2005	8.63	13.64	5.01	0.00		
12/2/2005	9.80	10.31	0.51	0.08		
Total Estimated LNAPL Removed (gallons):				**1.48**		
RFI-12-32						
9/4/2003	NP	4.77	NP	0.00	4.0 - 14.0	Added step-out well
12/15/2003	NP	3.38	NP	0.00		
3/8/2004	NP	2.84	NP	0.00		
5/2/2004	NP	2.81	NP	0.00		
5/9/2004	NP	1.23	NP	0.00		
6/23/2004	NP	2.37	NP	0.00		
9/20/2004	NP	3.46	NP	0.00		
12/1/2004	NP	2.41	NP	0.00		
6/2005	NP	3.01	NP	0.00		
12/22/2005	NP	4.79	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-12-33						
3/8/2004	NP	6.01	NP	0.00	4.0 - 14.0	Added step-out well
5/2/2004	NP	5.74	NP	0.00		
5/9/2004	NP	4.77	NP	0.00		
6/23/2004	NP	5.22	NP	0.00		
9/20/2004	NP	6.10	NP	0.00		
12/1/2004	NP	5.22	NP	0.00		
6/2005	NP	5.46	NP	0.00		
12/2/2005	NP	5.55	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-12-34						
3/8/2004	NP	6.54	NP	0.00	5.0 - 15.0	Added step-out well
5/2/2004	NP	4.96	NP	0.00		
5/9/2004	NP	5.16	NP	0.00		
6/23/2004	NP	4.33	NP	0.00		
9/20/2004	NP	6.44	NP	0.00		
12/1/2004	NP	5.75	NP	0.00		
6/2005	NP	5.55	NP	0.00		
12/22/2005	NP	6.50	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-12-35						
5/2/2004	NP	6.40	NP	0.00	4.5 - 14.5	Added step-out well
5/9/2004	NP	4.05	NP	0.00		
6/23/2004	NP	5.69	NP	0.00		
9/20/2004	5.65	5.66	0.01	0.00		
12/1/2004	5.16	5.25	0.09	0.00		
6/2005	5.25	5.30	0.05	0.00		
12/2/2005	5.48	5.95	0.47	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-12-36						
5/2/2004	NM	NM	NM	0.00	2.0 - 7.0	
6/23/2004	NP	2.22	NP	0.00		
9/20/2004	NP	2.46	NP	0.00		
12/1/2004	NM	NM	NM	0.00		Could not locate well
6/17/2005	NM	NM	NM	0.00		Could not locate well
12/22/2005	NP	2.88	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-12-38						
5/2/2004	5.20	5.50	0.30	0.00	3.0 - 8.0	Added step-out well
6/23/2004	5.15	5.73	0.58	0.09		
9/20/2004	5.24	5.88	0.64	0.10		
12/1/2004	5.04	5.60	0.56	0.09		
6/2005	5.28	5.84	0.56	0.00		
12/27/2005	5.50	6.02	0.52	0.08		
Total Estimated LNAPL Removed (gallons):				**0.36**		
RFI-12-40						
5/2/2004	NP	5.28	NP	0.00	3.0 - 8.0	
6/23/2004	NP	5.29	NP	0.00		
9/20/2004	NP	5.52	NP	0.00		
12/1/2004	NP	5.17	NP	0.00		
6/2005	NP	5.32	NP	0.00		
12/27/2005	NP	5.68	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-12-41						
9/20/2004	NP	3.44	NP	0.00	1.5 - 12.0	Added step-out well
12/1/2004	NP	5.76	NP	0.00		
6/2005	NP	3.65	NP	0.00		
12/27/2005	NP	3.92	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		

Table X-17 AOI 03-1 Quench Oil LNAPL Areas - 2003-2005
RACER Trust, Buick City Site, Flint, Michigan

Well ID and Date Measured	Depth to LNAPL (feet bgs)	Depth to Water (feet bgs)	LNAPL Thickness (feet)	Estimated Volume of LNAPL Bailed (gallons)	Screened Interval (feet bgs)	Comments
03-01						
9/4/2003	5.44	6.49	1.05	0.17	5.0 - 15.0	Added LNAPL well
12/15/2003	NM	NM	NM	0.00		Missing due to demolition
Total Estimated LNAPL Removed (gallons):				0.17		
03-01R						
4/19/2004	NP	4.65	NP	0.00	3.0 - 13.0	Replacement Well
5/2/2004	NP	4.51	NP	0.00		
6/23/2004	NP	4.06	NP	0.00		
9/20/2004	NP	5.36	NP	0.00		
12/1/2004	NP	4.28	NP	0.00		
6/2005	NP	4.12	NP	0.00		
12/8/2005	NP	5.77	NP	0.00		Sheen on probe
Total Estimated LNAPL Removed (gallons):				**0.00**		
03-02						
12/15/2003	NP	3.66	NP	0.00	5.0 - 15.0	Surface completion destroyed
Total Estimated LNAPL Removed (gallons):				**0.00**		
03-03						
3/2/2003	12.55	12.82	0.27	0.00	8.0 - 18.0	
6/2/2003	11.79	11.83	0.04	0.00		
12/15/2003	NM	NM	NM	0.00		Missing due to demolition
Total Estimated LNAPL Removed (gallons):				**0.00**		
03-03R						
4/19/2004	NP	11.32	NP	0.00	5.0 - 15.0	Replacement Well
5/2/2004	10.99	11.04	0.05	0.00		
6/23/2004	10.30	11.31	1.01	0.16		
9/20/2004	11.11	12.66	1.55	0.25		
12/1/2004	10.74	12.49	1.75	0.28		
6/2005	9.86	12.38	2.52	0.00		
12/8/2005	11.2	11.88	0.68	0.11		
Total Estimated LNAPL Removed (gallons):				**0.80**		
03-101						
3/2/2003	NM	NM	NM	NM	NA	LNAPL well
6/2/2003	NM	NM	NM	0.00		Active demolition area
9/4/2003	NM	NM	NM	0.00		Active demolition area, cannot access
12/15/2003	NM	NM	NM	0.00		Missing due to demolition
Total Estimated LNAPL Removed (gallons):				**0.00**		
03-101R						
4/19/2004	NP	8.00	NP	0.00	4.0 - 14.0	Replacement Well
6/23/2004	NP	7.28	NP	0.00		
9/20/2004	NP	8.30	NP	0.00		
12/1/2004	NP	7.50	NP	0.00		
6/2005	NP	7.16	NP	0.00		
12/22/2005	NP	9.35	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
03-105R						
6/8/2003	9.69	9.82	0.13	0.02	9.0 - 19.0	
12/15/2003	NM	NM	NM	0.00		Missing due to demolition
Total Estimated LNAPL Removed (gallons):				**0.02**		
03-105R2						
3/2/2003	NM	NM	NM	0.00	9.0 - 19.0	LNAPL well
6/2/2003	9.72	9.84	0.12	0.00		Added LNAPL well
9/4/2003	NM	NM	NM	0.00		Active demolition area, cannot access
Total Estimated LNAPL Removed (gallons):				**0.00**		
03-105R3						
4/19/2004	NP	9.16	NP	0.00	3.0 - 13.0	Replacement well
5/2/2004	NP	8.49	NP	0.00		
6/23/2004	NP	7.30	NP	0.00		
9/20/2004	NP	9.28	NP	0.00		
12/1/2004	NP	8.16	NP	0.00		
6/2005	NP	5.99	NP	0.00		
12/8/2005	NP	9.28	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
03-110						
3/2/2003	NM	NM	NM	0.00	8.5 - 13.5	Sentinel well
6/2/2003	NP	7.75	NP	0.00		Added Sentinel well
9/4/2003	NM	NM	NM	0.00		Active demolition area, cannot access
12/15/2003	NM	NM	NM	0.00		Missing due to demolition
Total Estimated LNAPL Removed (gallons):				0.00		

Table X-17 AOI 03-1 Quench Oil LNAPL Areas - 2003-2005
RACER Trust, Buick City Site, Flint, Michigan

Well ID and Date Measured	Depth to LNAPL (feet bgs)	Depth to Water (feet bgs)	LNAPL Thickness (feet)	Estimated Volume of LNAPL Bailed (gallons)	Screened Interval (feet bgs)	Comments
03-110R						
4/19/2004	NP	6.91	NP	0.00	4.0 - 14.0	Replacement well
5/2/2004	NP	6.55	NP	0.00		
6/23/2004	NP	6.10	NP	0.00		
9/20/2004	NP	7.29	NP	0.00		
12/1/2004	NP	6.44	NP	0.00		
6/2005	NP	6.20	NP	0.00		
12/8/2005	NP	7.82	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
03-113						
3/2/2003	NP	7.46	NP	0.00	8.5 - 13.5	
6/2/2003	NM	NM	NM	0.00		Cannot locate
9/4/2003	NM	NM	NM	0.00		Buried/destroyed by demolition
Total Estimated LNAPL Removed (gallons):				**0.00**		
03-113R						
12/15/2003	NP	4.55	NP	0.00	3.0 - 13.0	Replacement well
3/8/2004	NP	4.30	NP	0.00		
6/23/2004	NP	3.24	NP	0.00		
9/20/2004	NM	NM	NM			Well destroyed by railroad track removal - use well RFI-03-02 as replacement
Total Estimated LNAPL Removed (gallons):				**0.00**		
70-100						
3/2/2003	NP	6.35	NP	0.00	20.0 - 25.0	
6/2/2003	NP	6.39	NP	0.00		
9/4/2003	NP	6.51	NP	0.00		
12/15/2003	NP	6.00	NP	0.00		
3/8/2004	NP	5.78	NP	0.00		
6/23/2004	NP	5.55	NP	0.00		
9/20/2004	NP	5.80	NP	0.00		
12/1/2004	NP	5.66	NP	0.00		
6/2005	NP	5.46	NP	0.00		
12/27/2005	NP	6.11	NP	0		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-03-02						
12/15/2003	NP	6.56	NP	0.00	5.0 - 15.0	
12/1/2004	NP	5.88	NP	0.00		
6/2005	NP	4.83	NP	0.00		
12/27/2005	NM	NM	NM	NM		Tubing stuck in well - could not gauge
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-03-03						
9/4/2003	NP	2.41	NP	0.00	2.5 - 12.5	Added Sentinel well
12/15/2003	NP	1.68	NP	0.00		
6/23/2004	NP	1.40	NP	0.00		
9/20/2004	NP	2.81	NP	0.00		
12/1/2004	NP	1.60	NP	0.00		
6/2005	NP	1.58	NP	0.00		Sheen
12/27/2005	NP	2.00	NP	0		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-03-15						
3/2/2003	NM	NM	NM	NM	7.0 - 17.0	Sentinel well
6/2/2003	NP	10	NP	0.00		Added Sentinel well
6/8/2003	NP	10.01	NP	0.00		
9/4/2003	NM	NM	NM	0.00		Active demolition area, cannot access
12/15/2003	NM	NM	NM	0.00		Missing due to demolition
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-03-15R						
4/19/2004	NP	9.85	NP	0.00	3.0 - 13.0	Replacement well
5/2/2004	9.64	9.65	0.01	0.00		
6/23/2004	NP	8.92	NP	0.00		
9/20/2004	NP	9.90	NP	0.00		
12/1/2004	NP	9.69	NP	0.00		
6/2005	NP	8.96	NP	0.00		
12/8/2005	NM	NM	NM	NM		Not found by surveyors
Total Estimated LNAPL Removed (gallons):				**0.00**		

Table X-18 AOI 81-2 Cutting Oil LNAPL Areas - 2003-2005
RACER Trust, Buick City Site, Flint, Michigan

Well ID and Date Measured	Depth to LNAPL (feet bgs)	Depth to Water (feet bgs)	LNAPL Thickness (feet)	Estimated Volume of LNAPL Bailed (gallons)	Screened Interval (feet bgs)	Comments
70-101						
3/2/2003	5.62	5.76	0.14	0.00	2.0 -12.0	
6/2/2003	3.89	4.02	0.13	0.00		
9/4/2003	5.19	5.35	0.16	0.00		
12/15/2003	3.60	4.12	0.52	0.08		Absorbent sock present in well
3/8/2004	3.03	4.05	1.02	0.17		
6/23/2004	3.18	3.27	0.09	0.00		
9/20/2004	3.86	5.17	1.31	0.21		
12/1/2004	3.20	3.56	0.36	0.06		
6/2005	3.74	4.18	0.44	0.06		
12/6/2005	4.27	4.80	0.53	0.09		
Total Estimated LNAPL Removed (gallons):				**0.67**		
70-102/102R						
3/2/2003	NP	5.66	NP	0.00	2.0 - 12.0	
6/2/2003	NP	4.02	NP	0.00		
9/4/2003	NM	NM	NM	0.00		Destroyed by railroad track removal
12/15/2003	NP	3.50	NP	0.00		Replacement well installed
3/8/2004	NP	3.31	NP	0.00		
6/23/2004	NP	4.32	NP	0.00		
9/20/2004	NP	4.10	NP	0.00		
12/1/2004	3.29	3.30	0.01	0.00		
6/2005	3.93	3.95	0.02	0.00		
12/8/2005	4.64	4.65	0.01	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
70-103						
3/2/2003	6.00	7.20	1.20	0.19	2.0 - 12.0	
6/2/2003	4.64	4.67	0.03	0.00		
9/4/2003	5.40	5.60	0.20	0.00		
12/15/2003	4.10	4.22	0.12	0.00		
3/8/2004	3.92	4.58	0.66	0.12		
6/23/2004	3.97	4.17	0.20	0.00		
9/20/2004	5.55	5.56	0.01	0.00		
12/1/2004	3.76	4.32	0.56	0.09		
6/2005	3.80	4.95	1.15	0.09		
12/8/2005	5.03	5.16	0.13	0.00		
Total Estimated LNAPL Removed (gallons):				**0.49**		
70-105						
3/2/2003	NM	NM	NM	NM	2.0 - 12.0	7.56 to ice - well blocked
3/18/2003	NM	NM	NM	NM		
6/2/2003	NP	5.37	NP	0.00		
9/4/2003	NP	6.73	NP	0.00		
12/15/2003	NP	5.18	NP	0.00		
3/8/2004	NP	5.57	NP	0.00		
6/23/2004	NP	4.65	NP	0.00		
9/20/2004	NP	5.95	NP	0.00		
12/1/2004	NP	4.54	NP	0.00		
6/2005	NP	5.34	NP	0.00		Sheen
12/8/2005	NP	5.92	0.00	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
70-106						
3/2/2003	NM	NM	NM	NM	4.5 - 9.5	7.18 to ice - well blocked
3/18/2003	NM	NM	NM	NM		
6/2/2003	NP	5.02	NP	0.00		
9/4/2003	NP	6.47	NP	0.00		
12/15/2003	NP	4.58	NP	0.00		
3/8/2004	NP	5.34	NP	0.00		
6/23/2004	NP	4.41	NP	0.00		
9/20/2004	NP	5.70	NP	0.00		
12/1/2004	NP	4.20	NP	0.00		
6/2005	NP	5.00	NP	0.00		Sheen
12/6/2005	NP	5.63	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
70-107						
3/2/2003	NP	8.02	NP	0.00	15.0 - 20.0	Sentinel well
6/2/2003	NP	6.79	NP	0.00		
9/4/2003	NP	7.21	NP	0.00		
12/15/2003	NP	6.64	NP	0.00		
3/8/2004	NP	6.39	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
70-107R						
12/15/2003	4.05	8.01	3.96	0.63	3.0 - 13.0	Supplemental well
3/8/2004	NM	NM	NM	NM		
6/23/2004	3.75	7.95	4.20	0.68		
9/20/2004	4.70	12.65	7.95	1.30		
12/1/2004	3.69	10.04	6.35	1.02		
6/2005	4.10	8.35	4.25	0.00		
12/6/2005	NP	6.89	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**3.63**		
70-108						
3/2/2003	6.33	7.08	0.75	0.00	10.0 - 15.0	
6/2/2003	4.82	5.55	0.73	0.12		
9/4/2003	NP	5.88	NP	0.00		
12/15/2003	NP	4.70	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.12**		
70-108R						
12/15/2003	NP	4.42	NP	0.00	6.0 - 16.0	Supplemental well
3/8/2004	NP	3.70	NP	0.00		
6/23/2004	NP	3.62	NP	0.00		Check replacement well only
9/20/2004	NP	4.62	NP	0.00		
12/1/2004	NP	4.12	NP	0.00		
6/2005	NP	4.30	NP	0.00		
12/6/2005	NP	5.06	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		

Table X-18 AOI 81-2 Cutting Oil LNAPL Areas - 2003-2005
RACER Trust, Buick City Site, Flint, Michigan

Well ID and Date Measured	Depth to LNAPL (feet bgs)	Depth to Water (feet bgs)	LNAPL Thickness (feet)	Estimated Volume of LNAPL Bailed (gallons)	Screened Interval (feet bgs)	Comments
70-163						
3/2/2003	NP	4.63	NP	0.00	3.0 - 9.8	Sentinel well
6/2/2003	NP	4.09	NP	0.00		
9/4/2003	NP	4.88	NP	0.00		
12/15/2003	NP	3.97	NP	0.00		
3/8/2004	NP	3.53	NP	0.00		
6/23/2004	NP	3.49	NP	0.00		
9/20/2004	NP	4.31	NP	0.00		
12/1/2004	NP	3.94	NP	0.00		
6/2005	NP	4.24	NP	0.00		
12/27/2005	NP	4.47	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
70-164						
3/2/2003	NM	NM	NM	NM	3.0 - 9.6	Sentinel well - off property
6/2/2003	NP	4.16	NP	0.00		
9/4/2003	NP	5.18	NP	0.00		
12/15/2003	NP	3.94	NP	0.00		
3/8/2004	NP	3.72	NP	0.00		
6/23/2004	NP	3.66	NP	0.00		
9/20/2004	NP	4.66	NP	0.00		
12/1/2004	NP	3.97	NP	0.00		
6/2005	NP	4.54	NP	0.00		
12/27/2005	NP	4.83	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
70-165						
3/2/2003	NP	4.71	NP	0.00	5.0 - 9.8	Sentinel well
6/2/2003	NP	3.63	NP	0.00		
9/4/2003	NP	4.81	NP	0.00		
3/8/2004	NP	3.05	NP	0.00		
6/23/2004	NP	3.19	NP	0.00		
9/20/2004	NP	4.01	NP	0.00		
12/1/2004	NP	3.39	NP	0.00		
6/2005	NP	4.10	NP	0.00		
12/6/2005	NP	4.51	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-81-22						
3/2/2003	NP	6.15	NP	0.00	3.0 - 13.0	
6/2/2003	NP	4.67	NP	0.00		
9/4/2003	NP	5.88	NP	0.00		
12/15/2003	NP	4.38	NP	0.00		
3/8/2004	NP	3.91	NP	0.00		
6/23/2004	NP	4.10	NP	0.00		
9/20/2004	NP	5.05	NP	0.00		
12/1/2004	NP	3.80	NP	0.00		
6/2005	NP	5.17	NP	0.00		Missing well cover
12/6/2005	NP	5.48	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-81-39R						
9/4/2003	NP	9.60	NP	0.00	7.0 - 17.0	
12/15/2003	NP	9.40	NP	0.00		
6/23/2004	NP	9.19	NP	0.00		
9/20/2004	NP	9.40	NP	0.00		
12/1/2004	NP	9.30	NP	0.00		
6/2005	NP	9.27	NP	0.00		
12/2/2005	NP	9.58	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-81-43						
5/2/2004	NP	5.55	NP	0.00	3.0 - 13.0	
6/23/2004	NP	5.24	NP	0.00		
9/20/2004	NP	6.61	NP	0.00		
12/1/2004	NP	4.91	NP	0.00		
6/2005	NP	6.44	NP	0.00		
12/13/2005	NP	6.91	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-81-45						
5/2/2004	NP	4.70	NP	0.00	3.0 - 13.0	
6/23/2004	NP	4.50	NP	0.00		
9/20/2004	NP	11.33	NP	0.00		
12/1/2004	NP	3.88	NP	0.00		
6/2005	NP	5.70	NP	0.00		
12/27/2005	NP	6.18	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-81-47						
5/2/2004	NP	7.00	NP	0.00	3.0 - 13.0	
6/23/2004	NP	6.76	NP	0.00		
9/20/2004	NP	12.90	NP	0.00		
12/1/2004	NP	6.65	NP	0.00		
6/2005	NP	7.81	NP	0.00		
12/13/2005	NP	8.34	NP	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		
RFI-81-49						
9/20/2004	NP	10.42	NP	0.00	3.0 - 13.0	Added step-out well
12/1/2004	NP	10.87	NP	0.00		
6/2005	NP	10.81	NP	0.00		
12/13/2005	10.83	10.85	0.02	0.00		
Total Estimated LNAPL Removed (gallons):				**0.00**		

Table X-19 **Outfall 002 Boom Study Summary - 2010**
RACER Trust, Buick City Site, Flint, Michigan

Manhole No.	6/23/2010	6/28/2010	7/6/2010	7/12/2010	7/19/2010	7/30/2010	8/4/2010	8/11/2010	8/16/2010	8/23/2010	8/27/2010	8/30/2010	9/8/2010	9/17/2010	9/20/2010
2-18 (downstream)	Boom installed	Slight discoloratio in boom; no visible sat.	No visible changes in sat.	No visible changes in sat.	Boom approx 1/8 sat.	No visible changes in sat.	No visible changes in sat.	No visible changes in sat.	No visible changes in sat.	Boom approx 50% sat.; boom found in different position than previous inspection	Boom installed	No visible sat.	Trace sat.	No changes in sat.	No changes in sat.
2-19	Boom installed	Slight discoloratio in boom; no visible changes in sat.	No visible changes in sat.	No visible changes in sat.	Boom approx 1/8 sat.	No visible changes in sat.	No visible changes in sat.	No visible changes in sat.	No visible changes in sat.	Boom approx 40% sat.; boom found in different position than past inspections	NA	No visible changes in sat.	No visible changes in sat.	No visible changes in sat.	No changes in sat.
Outfall 002 Condtions	Outfall pumped	Clear	less than 10% EO within first boom	Clear	10% EO within first boom	Clear	Clear	less than 10% EO within first boom	Clear	less than 10% EO within first boom	25% EO within first boom	25% EO within first boom	Trace EO/OS	Clear	Clear
Rain received since last inspection (approx):	NA	0.89 inches	0.0 inches	1.32 inches	0.01 inches	0.29 inches	0.05 inches	0.20 inches	0.06 inches	Trace precipitation	0.01 inches	0.0 inches	1.15 inches	1.09 inches	0.40 inches

Notes:
NA – Not applicable
Sat. - saturation or saturated
EO - emulsified oil
OS - oil sheen
OX - oxidized oil

Table X-19 **Outfall 002 Boom Study Summary - 2010**
RACER Trust, Buick City Site, Flint, Michigan

Manhole No.	9/30/2010	10/6/2010	10/13/2010	10/15/2010	10/20/2010	10/28/2010	11/2/2010	11/10/2010	11/15/2010	11/22/2010	11/29/2010	12/6/2010	12/13/2010
2-18 (downstream)	No changes in sat.	Slight increase in sat.	Slight increase in sat.	NA	Slight increase in sat.	No visible changes since last inspection	No visible changes since last inspection	No visible changes since last inspection	No visible changes since last inspection	No visible changes since last inspection	Slight increase in sat.	Slight increase in sat.	Slight increase in sat.
2-19	No visible changes in sat.	Slight increase in sat.	Slight increase in sat.	Boom installed	Slight increase in sat.	No visible changes in sat.	No visible changes in sat.	No visible changes in sat.	No visible changes in sat.	No visible changes in sat.	No visible changes in sat.	Slight increase in sat.	No visible changes in sat.
Outfall 002 Condtions	Clear	Clear	Clear	Pump Outfall	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Rain received since last inspection (approx):	1.02 inches	0.03 inches	0.61 inches	0.01 inches	0.36 inches	0.81 inches	0.00 inches	0.04 inches	0.01 inches	0.80 inches	0.44 inches	1.05 inches	0.76 inches

Notes:
NA – Not applicable
Sat. - saturation or saturated
EO - emulsified oil
OS - oil sheen
OX - oxidized oil

Table X-20 **Outfall 002 Boom Study Summary - 2011**
RACER Trust, Buick City Site, Flint, Michigan

Manhole No.	5/17/2011	5/25/2011	6/7/2011	6/15/2011	6/24/2011	6/29/2011 (Begin STUDY)	7/8/2011	7/14/2011	7/20/2011	7/25/2011	7/29/2011	8/5/2011	8/8/2011	8/12/2011	8/17/2011	8/24/2011	9/1/2011	9/9/2011	9/12/2011	9/21/2011	9/28/2011	10/7/2011	10/12/2011
2-18 (downstream)	NA	Nearly 80% sat.	Nearly 80% sat.	Nearly 80% sat.	Boom installed	No sign of sat.	Slightly discolored; no signs of absorption	Increased discoloration; trace absorption	Approx 10% sat.	Boom approx 1/3 sat.	NA	Boom found missing upon scheduled changeout; Site security had cut chains	Boom installed	NA	Discoloration; approximately 20% sat.	Boom replaced due to damage; approx 50% sat.	Less than 15% sat.; discolored	NA	50% sat.	Boom change out due to sat.	75% sat.; can see sheen on water	75% sat.; can see sheen on water	80% sat.; can see sheen on water
2-19	Nearly 80% sat.	Nearly 80% sat.	Nearly 80% sat.	Nearly 80% sat.	Boom installed	No sign of sat.	Slightly discolored; no signs of absorption	Increased discoloration; trace absorption	Boom approx 80% sat.	Boom approx 80% sat.	NA	Boom found missing upon scheduled changeout; Site security had cut chains	Boom installed	NA	Discoloration; approximately 80% sat.	Boom replaced due to damage and sat.; approx 75% sat.	Approximately 15% sat., exterior only	NA	50% sat.	Boom change out due to sat.	75% sat.; can see sheen on water	80% sat.; can see sheen on water	80% sat.; can see sheen on water
2-20	-	-	-	-	-	-	-	-	-	-	-	-	Boom installed	NA	Approximately 20% sat.; discoloration	NA	Less than 15% sat.; discolored	NA	25% sat.	Approx 25% sat.; increasing discoloration	30% sat.	50% sat.	75% sat.
2-21	-	-	-	-	NA	Boom installed	Slightly discolored; no signs of absorption	Increased discoloration; trace absorption	Approx 1/3 of boom sat.	NA	Approx 1/2 of boom is sat.	Change out boom due to damage/ sat.	NA	Less than 10% sat.; discoloration	50% sat. on exterior (unable to tell if interior is sat. or only discolored); boom is heavier	Change out boom due to sat. (75-80%)	15% sat., exterior only	~ 20% sat.	25% sat.	Boom change out due to sat.	70% sat.	75% sat.	75% sat.
2-21-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Outfall 002 Conditions	Clear	Trace EO	Clear	Trace EO, OS	NA	NA	Clear	Clear	Clear	Clear	Clear	Outfall pumped, outfall is	Trace amount of oil	less than 5% OX	10% OX	Outfall pumped	<25% EO	40% EO, trace OX	50% thin EO, 10% OX	20% EO, 40% OX; outfall	80% OX	30% OX	<20% OX
Rain received since last inspection (approx):	NA	4.17 inches	0.89 inches	0.15 inches	2.09 inches	0.05 inches	0.02 inches	0.12 inches	0.25 inches	0.25 inches	5.98 inches	0.73 inches	0.15 inches	0.16 inches	0.54 inches	0.54 inches	Trace precipitation	0.28 inches	0.02 inches	0.83 inches	0.83 inches	0.83 inches	Trace precipitation

Notes:
Manhole boom inspection data not available from January 2011 through April 2011.
NA – Not applicable
Sat. - saturation or saturated
EO - emulsified oil
OS - oil sheen
OX - oxidized oil

MH 2-21-2 – manhole full of water, could not install boom
MH 2-31 – manhole full of water, could not place boom
MH 2-23 – no access to storm sewer from manhole
NH 2-22 – storm sewer off-set too far from manhole

Table X-20 **Outfall 002 Boom Study Summary - 2011**
RACER Trust, Buick City Site, Flint, Michigan

Manhole No.	10/21/2011	10/27/2011	11/2/2011	11/10/2011	11/22/2011	12/8/2011	12/14/2011	1/3/2012	1/17/2012	1/19/2012	2/9/2012	2/24/2012	3/7/2012	3/22/2012	4/2/2012	4/12/2012	5/4/2012	5/18/2012	5/25/2012	6/1/2012	6/15/2012	6/22/2012
2-18 (downstream)	90% sat.	Boom change out due to 100% sat.	10% sat.	Boom change out due to damage 50% sat.	Saturated	>75% saturated	Boom change out due to 100% sat.	<10% sat., minor staining	75% sat., oil sheen observed on the water within MH; lt. brown/tan staining on 90% of boom	Boom change out due to ~80% sat.	15% sat., brown staining on 30% of boom	40% sat., brown staining on 80% of boom	Boom change out due to ~100% sat. (also black/brown staining on entire boom); replaced with 5"x10'	80% sat., brown staining on 80% of boom	Boom change out due to ~100% sat.	0% sat., some brown staining on the bottom of the boom	5% sat., brown staining	NA	10% sat., brown staining	25% sat., brown staining	75% sat., brown staining	75% sat., brown staining
2-19	90% sat.	Boom change out due to 100% sat.	15% sat.	Boom change out due to damage 50% sat.	50% sat.	40% saturated, discolored	Boom change out due to 100% sat.	30% sat., half of boom stained black	80% sat., lt. brown/tan staining on 90% of boom	Boom change out due to ~80% sat.	Boom change out due to ~85% sat. (also brown staining on 80% of boom)	30% sat., brown staining on 100% of boom	Boom change out due to ~100% sat. (also black/brown staining on entire boom); replaced with 5"x10'	90% sat., brown staining on 90% of boom	Boom change out due to ~100% sat.	0% sat., some brown staining on the bottom of the boom	40% sat., brown staining	75% sat., brown staining	75% sat., brown staining	85% sat., brown staining	Boom change out due to ~100% sat. (also brown & black staining)	0% sat., minor brown/black staining
2-20	75% sat.	Boom change out due to damage, 50% sat.	~ 10% sat, discolored	25% sat.	Saturated	>75% saturated, discolored, boom was tangled w/ chain	Boom change out, 80-% saturated, dark staining	80% sat; 90% of boom stained black	100% sat; black and brown staining on 90% of boom	Boom Removed	-	-	-	-	-	-	-	-	-	-	-	-
2-21	90% sat.	Boom change out due to 100% sat.	20% sat, discolored	~25% sat.	Saturated	> 75% saturated, discolored	Boom change out, 100 saturated, dark staining	90% sat.; entire boom stained dark black	90% sat.; black and brown staining on 90% of boom, moderate flow	Boom Removed	-	-	-	-	-	-	-	-	-	-	-	-
2-21-1	Installed boom; minimal flow	No visible signs of sat., some discoloration, minimal flow	~ 10% sat, discolored	~20% sat., discolored (sat. more likely from rain event than regular flow)	Discolored	0% Sat., manhole is dry	0% sat., minimal staining, minimal flow, very shallow vault	0% sat.	0% sat., minimal staining	NA	0% sat., minimal staining, dry bottom	5% sat., minimal staining, some water accumulation in manhole bottom	5% sat., brown staining observed on 20% of boom	5% sat., brown staining observed on 15% of boom	5% sat., some minor brown staining	NA - booms removed due to deterioration	-	-	-	-	-	-
2-24	-	Installed boom, minimal flow;	checked on 10/31 – still minimal flow; no signs of sat.	No sat., trace discoloration	Slight increase in sat.	<10% sat. partly discolored	10% sat., minimal staining, minimal flow	10% sat., minimal staining, minimal flow	5% sat., minimal staining, MH appeared to be dry	NA	10% sat., some dk. Brown staining, petro odor noticed when lid was removed	10% sat., some dk. Brown staining, no water visible in bottom of manhole	15% sat., rust colored/brown staining on 50% of boom	15% sat., brown staining on 15% of boom	30% sat., brown staining	NA - booms removed due to deterioration	-	-	-	-	-	-
Outfall 002 Conditions	50% OX; <10% EO		20% OX, 10% EO	~80% OX	<10% EO, OS 20%	40% OX, Trace OS																
Rain received since last inspection (approx):	1.97 inches	0.34 inches	0.07 inches	0.46 inches	0.53 inches	2.38 inches	0.52 inches	0.52 inches	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
Manhole boom inspection data not available from January 2011 through April 2011.
NA – Not applicable
Sat. - saturation or saturated
EO - emulsified oil
OS - oil sheen
OX - oxidized oil

MH 2-21-2 – manhole full of water, could not install boom
MH 2-31 – manhole full of water, could not place boom
MH 2-23 – no access to storm sewer from manhole
NH 2-22 – storm sewer off-set too far from manhole

Table X-21 **Outfall 004 Boom Study Summary - 2011**
RACER Trust, Buick City Site, Flint, Michigan

Manhole No.	6/24/2011	6/29/2011 (Begin STUDY)	7/8/2011	7/14/2011	7/20/2011	7/25/2011	7/29/2011	8/5/2011	8/12/2011	8/17/2011	8/24/2011	9/1/2011	9/9/2011	9/12/2011	9/21/2011	9/28/2011
4-14 (downstream)	Boom Installed	Clean; no saturation	Slight discoloration; no signs of absorption	Increased discoloration; trace absorption	Boom approximately 1/4 saturated	Boom approximately 1/3 saturated	Boom approximately 1/2 saturated	Boom replaced	Boom slightly saturated	Less than 15% saturation	Boom replaced due to damage and fraying; approximately	Trace saturation	Less than 20% saturation	~30% sat.	Boom change-out due to sat.	40% sat.
4-17	-	-	-	-	-	-	-	-	Boom installed	Trace saturation	10% saturation	10% saturation	10% saturation	25% sat.	Boom change-out, 40% sat., installed smaller boom	<20% sat.
4-18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-19	-	-	-	-	-	-	-	-	Boom installed	20% saturation	Change out boom due to damage	Trace saturation; discoloration	10% saturation	25% sat.	Boom change-out due to sat.	10% sat.
4-21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9/20 installed boom – open cover-type MH	Trace discoloration
Rain received since last inspection (approx):	NA	0.05 inches	0.02 inches	0.12 inches	0.25 inches	0.03 inches	5.98 inches	0.73 inches	0.16 inches	0.54 inches	0.54 inches	Trace precipitation	0.28 inches	0.02 inches	0.83 inches	0.83 inches

Table X-21 **Outfall 004 Boom Study Summary - 2011**
RACER Trust, Buick City Site, Flint, Michigan

Manhole No.	10/7/2011	10/12/2011	10/21/2011	10/27/2011	11/2/2011	11/10/2011	11/15/2011	11/22/2011	11/30/2011	12/8/2011	12/14/2011	1/3/2012	1/17/2012	1/19/2012
4-14 (downstream)	40% sat.	50% sat.	75% sat.	Change-out boom due to 90% sat.	20% sat.	Change-out due to 25-30% sat.	<50% sat.	Slight increase (~50% sat.)	Slight increase (~50% sat.)	25% sat., partially discolored	~35% sat., sheen observed, moderate flow	Manhole lid frozen	50% sat., lt. brown/tan color on 75% of boom	Boom Removed
4-17	25% sat.	25% sat.	40% sat.	50% sat.	50% sat.	Change-out boom 75% sat.	<10% sat., discolored	<20% sat., discolored	<25% sat., discolored	<25% sat., discolored	<5% sat., minor staining	<10% sat., minor staining	5% sat., some lt. brown/tan staining	Boom Removed
4-18	-	-	-	-	-	-	-	Boom installed on 11/23/11	<25% sat., discolored	<25% sat., partly discolored	<10% sat., minor staining	<10% sat., minor staining	25% sat., lt. brown/tan staining on 50% of boom	Boom Removed
4-19	25% sat.	25% sat.	25% sat.	40% sat.	50% sat.	Change-out boom, 75% sat.	<20% sat., discolored	~20% sat., discolored	<10% sat., discolored	<25% sat., partly discolored	<5% sat, 50% black staining	<5% sat, minor staining	<5% sat, some lt. brown staining	Boom Removed
4-21	-	-	-	-	-	-	-	Boom installed on 11/23/11	0% sat., slight discoloration, mininal flow	0% sat., shallow manhole, sediment, no water	0% sat., dry, shallow manhole	<5% sat., minor staining	0% sat., some minor staining, does not appear to be petro staining	Boom Removed
4-23	Trace discoloration	Trace discoloration	Trace discolor-ation	No increase in sat. no sign of damage	<10 percent sat.; some discoloration	<25% sat., discolored	<10% sat., discolored	<10% sat., increasing discoloration	<10% sat., discolored	<25% sat., discolored	~25% sat., half of boom stained w/ black color	30% sat., half of boom stained w/ black color	25% sat., lt. black/brown staining	Boom Removed
Rain received since last inspection (approx):	0.83 inches	Trace precip.	1.97 inches	0.34 inches	0.07 inches	0.46 inches	0.17 inches	0.36 inches	1.83 inches	0.55 inches	0.52 inches	-	-	-

Table X-22 **Factory 36 Boom Study Investigation - 2014**
RACER Trust, Buick City Site, Flint, Michigan

Date	MH 3-34							
	Manhole		Absorbent Boom					Notes
	Flow	Sheen Present	Staining	Saturation Level	Discoloration	Color	Replaced	
3/20/2014	Yes	No	-	0%	-	-	-	3" x 10" Absorbent boom installed
3/30/2014	Yes	No	Yes	0%	Yes	Gray/Black	-	No LNAPL or Odor Observed
4/11/2014	Yes	No	Yes	0%	Yes	Gray/Black	-	No LNAPL or Odor Observed

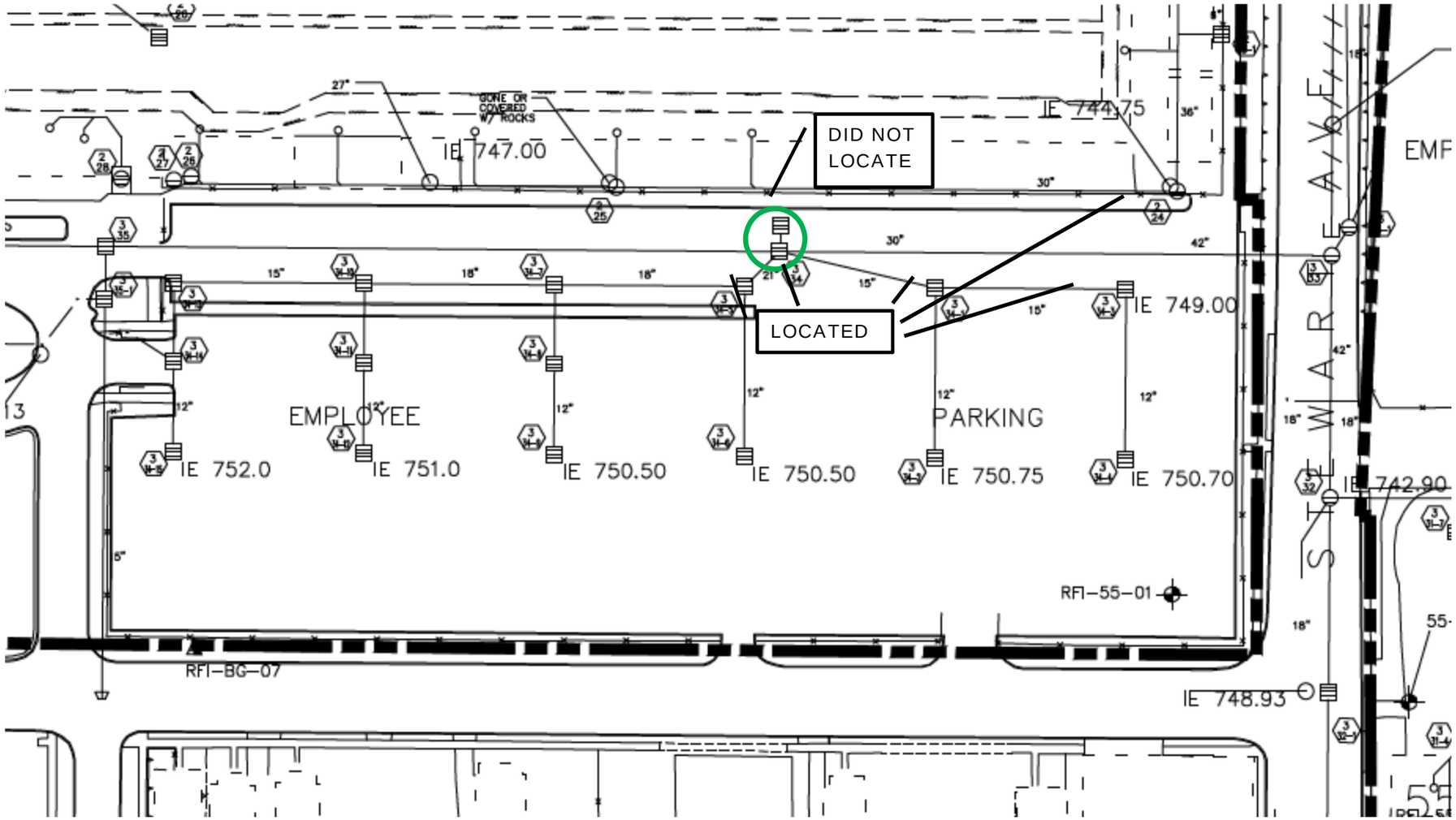

DID NOT LOCATE
LOCATED
IE 747.00
IE 744.75
IE 749.00
GONE OR COVERED W/ ROCKS
EMPLOYEE
PARKING
IE 752.0
IE 751.0
IE 750.50
IE 750.50
IE 750.75
IE 750.70
IE 742.90
IE 748.93
RFI-55-01
RFI-BG-07
EMF
27"
30"
42"
15"
18"
21"
12"
5"

Table X-23 **Outfall 013 Boom Study Investigation - 2014**
RACER Trust, Buick City Site, Flint, Michigan

Date		MH 13-12					
	Staining	Saturation Level	Discoloration	Color	Sheen Present	Boom Replaced	Notes
1/29/2014		0%	-	-	No	-	3" x 10" Absorbent boom installed
2/5/2014	Y	0%	Y	Lt. Brown	No	No	Increased chain length and boom alignment
2/14/2014	Y	0%	Y	Lt. Brown	No	No	No odor or sheen present on boom
2/19/2014	Y	0%	Y	Lt. Brown	No	No	No odor or sheen present on boom.
2/26/2014	Y	0%	Y	Brown	No	No	No odor or sheen present on boom.
3/7/2014	Y	0%	Y	Brown	No	No	Monitoring complete. Boom removed

Date		MH 13-#					
	Staining	Saturation Level	Discoloration	Color	Sheen Present	Boom Replaced	Notes
1/29/2014	-	-	-	-	-	-	Unable to access Downstream MH Locaiton due to frozen lids
2/5/2014	-	-	-	-	-	-	Unable to access Downstream MH Locaiton due to frozen lids
2/14/2014	-	-	-	-	-	-	Unable to access Downstream MH Locaiton due to frozen lids
2/19/2014	-	-	-	-	-	-	Unable to access Downstream MH Locaiton due to frozen lids
2/26/2014	-	-	-	-	-	-	Unable to access Downstream MH Locaiton due to frozen lids
3/7/2014	-	-	-	-	-	-	Unable to access Downstream MH Locaiton due to frozen lids

Table X-24 **Boom Study Data Summary**
RACER Trust, Buick City Site, Flint, Michigan

Stage	Manhole #	Location	11/30/2011	12/8/2011	1/17/2012	1/23/2012	1/31/2012	2/9/2012	2/23/2012
Upgradient Manholes	3-25-3	Just west of center of building 43	No boom installed. Manhole overflowing with water	No boom installed. . Manhole lid stuck. Could not get open	No longer monitoring	NA	NA	NA	NA
	3-26	Just east of center of building 43 near Division Street	3" X 10' boom installed (opening is a small penetration in an existing line)	0% saturated. Partly discolored	0% saturated. Minimal staining	Active Demolition in area - could not inspect	No inspection performed on this date	Active Demolition in area - could not inspect	Active Demolition in area - could not inspect
	3-31	Just southeast of WWTP	5" X 10' boom installed	0% saturated. Partly discolored	Manhole frozen due to weather and underlying geotextile	10% saturated. Some brown/black staining on half of boom	No inspection performed on this date	Manhole frozen due to weather and underlying geotextile packed with soil	Manhole frozen due to weather and underlying geotextile - tried to open with sledgehammer/pry bar
	3-51	Near western border of Site by Building 66	5" X 10' boom installed	<10% saturated. Gray/Silver color on bottom of boom	Manhole frozen. Could not get lid open	10% saturated. Gray staining on majority of boom	No inspection performed on this date	20% saturated. Gray staining on 90% of boom	25% saturated. Gray staining on 95% of boom
2nd Stage of booms installed	3-22-1	~300 ft southeast of building 20	NA	NA	NA	NA	Located in active demo area - Boom not installed at this time	Located in active demo area - Boom not installed at this time	Located in active demo area - Boom not installed at this time
	3-23	~100 ft southwest of building 20	NA	NA	NA	NA	Located in active demo area - Boom not installed at this time	Located in active demo area - Boom not installed at this time	Located in active demo area - Boom not installed at this time
	3-23-2	Inside building 43 footprint just west of MH 3-23	NA	NA	NA	NA	Located in active demo area - Boom not installed at this time	Located in active demo area - Boom not installed at this time	Located in active demo area - Boom not installed at this time
	3-38	Just south of Interceptor #2 (BOB 2)	NA	NA	NA	NA	Installed Boom	15% saturated. Brown staining on 20% of boom	15% saturated. Brown staining on 50% of boom

Table X-24 **Boom Study Data Summary**
RACER Trust, Buick City Site, Flint, Michigan

Stage	Manhole #	Location	11/30/2011	12/8/2011	1/17/2012	1/23/2012	1/31/2012	2/9/2012	2/23/2012
	3-65	**~400 feet south of Interceptor #2 (BOB 2)**	NA	NA	NA	NA	Inatalled Boom	15% saturated. Brown and rust colored staining on 20% of boom	25% saturated. Brown and rust colored staining on 70% of boom. Some black sludge on boom
3nd Stage of booms installed	**3-73**	**Located just north of center of building 21**	NA	NA	NA	NA	NA	NA	NA
	3-15	**Located Just northwest of Interceptor #2**	NA	NA	NA	NA	NA	NA	NA
	3-22	**Located Just south of center of building 20**	NA	NA	NA	NA	NA	NA	NA
	3-48-1	**Located just east of Building 65**	NA	NA	NA	NA	NA	NA	NA
	3-46	**Located just northwest of Building 71B**	NA	NA	NA	NA	NA	NA	NA
	3-25-1	**Located in north/central portion of building 43**	NA	NA	NA	NA	NA	NA	NA

Table X-24 **Boom Study Data Summary**
RACER Trust, Buick City Site, Flint, Michigan

Stage	Manhole #	Location	11/30/2011	12/8/2011	1/17/2012	1/23/2012	1/31/2012	2/9/2012	2/23/2012
4th Stage of booms installed	3-39		NA	NA	NA	NA	NA	NA	NA
	3-40		NA	NA	NA	NA	NA	NA	NA
	3-41		NA	NA	NA	NA	NA	NA	NA
	3-42		NA	NA	NA	NA	NA	NA	NA
	3-43		NA	NA	NA	NA	NA	NA	NA
	3-44		NA	NA	NA	NA	NA	NA	NA
	3-45		NA	NA	NA	NA	NA	NA	NA

Table X-24 **Boom Study Data Summary**
RACER Trust, Buick City Site, Flint, Michigan

Stage	Manhole #	Location	3/7/2012	3/12/2012	3/22/2012	4/2/2012	4/11/2012	4/20/2012	4/25/2012
Upgradient Manholes	3-25-3	Just west of center of building 43	NA	NA	NA	NA	NA	NA	NA
	3-26	Just east of center of building 43 near Division Street	Active Demolition in area - could not inspect	0% saturated. Minimal staining	Buried with construction debris. Inaccessible	Buried with construction debris. Inaccessible	5% saturated. Removed boom and chain. Did not replace	NA	NA
	3-31	Just southeast of WWTP	Active Demolition in area - could not inspect	Attempted to open with Bobcat but could not during demo lunch hour. Need demolition contractor to open	Steel plate over top of manhole. Fill sand was also placed over steel plate. Inaccessible.	No longer monitoring	NA	NA	0% saturated. After demolition, manhole could finally be opened. Boom appreared to have been hanging from the top of sewer pipe and was not immersed in water
	3-51	Near western border of Site by Building 66	25% saturated. Gray staining on 90% of boom	50% saturated. Gray staining on entire boom	80% saturated. Gray staining on entire boom. Collected sample of boom for PCBs	New Boom Installed	0% saturated. Some minor gray staining	5% saturated. Some minor gray staining on bottom of boom	5% saturated. Moderate gray staining
2nd Stage of booms installed	3-22-1	~300 ft southeast of building 20	Boom installed on 3/1/12. 5 % saturated. Brown, black staining on 10% of boom	5% saturated. Black and brown staining on bottom of boom	15% saturated. Brown staining on 50% of boom	15% saturated. Brown staining on 50% of boom	15% saturated. Brown staining on 50% of boom	15% saturated. Some brown and black staining	15% saturated. Brown and black staining
	3-23	~100 ft southwest of building 20	Located in active demo area - Boom not installed at this time	New boom installed - 5" X 10' spaghetti boom. Sheen observed in manhole	10% saturated. Brown staining on 20% of boom	10% saturated. Brown staining on 20% of boom	20% saturated. Some brown staining	50% saturated. Brown and black staining with some slime-like material accumulated on the boom. Sheen observed on exterior of boom	50% saturated. Brown and black staining
	3-23-2	Inside building 43 footprint just west of MH 3-23	Located in active demo area - Boom not installed at this time	New boom installed - 5" X 10' spaghetti boom	Buried with construction debris. Inaccessible	Buried with construction debris. Inaccessible	Installed boom?	0% saturated. Some minor brown staining	0% saturated. Some minor brown staining
	3-38	Just south of Interceptor #2 (BOB 2)	15% saturated. Gray/black staining on 80% of boom	15% saturated. Gray/black staining on 90% of boom	60% saturated. Brown staining on entire surface area of boom	60% saturated. Brown / gray staining on entire surface area of boom. New boom was installed	0% saturated. Some minor brown staining	25% saturated. Brown/gray/black staining with some green and black slime-like material accumulated on boom exterior	25% saturated. Brown/black staining

Table X-24 **Boom Study Data Summary**
RACER Trust, Buick City Site, Flint, Michigan

Stage	Manhole #	Location	3/7/2012	3/12/2012	3/22/2012	4/2/2012	4/11/2012	4/20/2012	4/25/2012
	3-65	**~400 feet south of Interceptor #2 (BOB 2)**	90% saturated. Sheen observed in bottom of manhole. Staining on 100% of boom. Black Sludge on boom. Boom was replaced.	25% saturated. Brown and black staining on 90% of boom.	100% saturated. Brown staining on 100% of boom. Boom was removed and replaced, but left boom suspended in manhole until next week. Took sample of boom for PCBs	New Boom Installed	20% saturated. Brown/black staining with some viscous black material accumulation on boom. Boom was ripped and damaged. **New boom installed to replace this boom**.	40% saturated. Red/rust/brown/black staining on boom. Brown and black slime like material accumulated on the boom exterior	75% saturated. Red/rust/brown/black staining.
3nd Stage of booms installed	**3-73**	**Located just north of center of building 21**	NA	NA	NA	Installed Boom	0% saturated. Some minor rust/brown staining	5% saturated. Some red/rust/brown colored staining	50% saturated. Red and Brown Staining
	3-15	**Located Just northwest of Interceptor #2**	NA	NA	NA	Installed boom at northern lateral in this manhole	0% saturated. Boom is dry. Not enough water flowing through northern lateral	0% saturated. Boom is dry. No flow from northern lateral	0% saturated. Boom is dry. No flow from northern lateral
	3-22	**Located Just south of center of building 20**	NA	NA	NA	Manhole cover jammed. Unable to open	Manhole cover jammed. Unable to open	Manhole cover jammed. Unable to open	Manhole cover jammed. Unable to open
	3-48-1	**Located just east of Building 65**	NA	NA	NA	Sheen observed in manhole. Boom was installed	0% saturated. Some minor gray staining	0% saturated. No flow in manhole.	Not inspected
	3-46	**Located just northwest of Building 71B**	NA	NA	NA	Boom Installed.	0% saturated. Some minor gray staining	5% saturated. Some minor black staining	5% saturated. Some minor black staining
	3-25-1	**Located in north/central portion of building 43**	NA	NA	NA	In active demo area. Manhole is buried with debris	0% saturated. Some minor brown staining	0% saturated. Some minor brown staining	0% saturated. Some minor brown staining

Table X-24 **Boom Study Data Summary**
RACER Trust, Buick City Site, Flint, Michigan

Stage	Manhole #	Location	3/7/2012	3/12/2012	3/22/2012	4/2/2012	4/11/2012	4/20/2012	4/25/2012
4th Stage of booms installed	3-39		NA	NA	NA	NA	NA	NA	NA
	3-40		NA	NA	NA	NA	NA	NA	NA
	3-41		NA	NA	NA	NA	NA	NA	NA
	3-42		NA	NA	NA	NA	NA	NA	NA
	3-43		NA	NA	NA	NA	NA	NA	NA
	3-44		NA	NA	NA	NA	NA	NA	NA
	3-45		NA	NA	NA	NA	NA	NA	NA

Table X-24 **Boom Study Data Summary**
RACER Trust, Buick City Site, Flint, Michigan

Stage	Manhole #	Location	5/4/2012	5/10/2012	5/17/2012	5/25/2012	6/1/2012	6/7/2012	6/15/2012
Upgradient Manholes	3-25-3	Just west of center of building 43	NA	NA	NA	NA	NA	NA	NA
	3-26	Just east of center of building 43 near Division Street	NA	NA	NA	NA	NA	NA	NA
	3-31	Just southeast of WWTP	NA	NA	NA	NA	NA	NA	NA
	3-51	Near western border of Site by Building 66	30% saturated. Gray staining	40% saturated. Gray staining	40% saturated. Gray staining	30% saturated. Gray staining	30% saturated. Gray staining	40% saturated. Gray staining	40% saturated. Gray staining
2nd Stage of booms installed	3-22-1	~300 ft southeast of building 20	50% saturated. Brown staining	70% saturated. Black/brown staining	75% saturated. Black/brown staining	85% saturated. Black/brown staining	95% saturated. Black/brown staining. Changed Boom	5% saturated. Black/brown staining	5% saturated. Black/brown staining
	3-23	~100 ft southwest of building 20	50% saturated. Brown and gray staining	75% saturated. Brown staining	85% saturated. Brown staining	100% saturated. Brown staining. Changed boom	5% saturated. Red/Rust color staining	20% saturated. Red/rust colored staining.	20% saturated. Red/rust colored staining.
	3-23-2	Inside building 43 footprint just west of MH 3-23	0% saturated. Some minor brown staining	0% saturated. Some minor brown staining	0% saturated. Some minor brown staining	0% saturated. Some minor brown staining	0% saturated. Some minor brown staining	15% saturated. Removed and disposed of boom	NA
	3-38	Just south of Interceptor #2 (BOB 2)	40% saturated. Brown staining	40% saturated. Gray/Black staining	50% saturated. Gray and brown staining	50% saturated. Brown staining	75% saturated. Brown staining.	100% saturated. Brown and black staining. Installed new boom.	0% saturated. Minimal brown staining.

Table X-24 **Boom Study Data Summary**
RACER Trust, Buick City Site, Flint, Michigan

Stage	Manhole #	Location	5/4/2012	5/10/2012	5/17/2012	5/25/2012	6/1/2012	6/7/2012	6/15/2012
	3-65	**~400 feet south of Interceptor #2 (BOB 2)**	100% saturated. Brown staining. Changed boom	25% saturated. Brown/Black staining	25% saturated. Brown staining	25% saturated. Brown staining	75% saturated. Brown staining. Sheen observed	100% saturated. Installed new boom.	5% saturated. Black/brown staining
3nd Stage of booms installed	**3-73**	**Located just north of center of building 21**	100% saturated. Changed Boom	75% saturated. Brown staining	40% saturated. Brown staining	100% saturated. Brown staining. Petrolium odor Changed boom	25% saturated. Brown staining	75% saturated. Brown and rust colored staining	100% saturated. Light brown and black staining. Changed boom
	3-15	**Located Just northwest of Interceptor #2**	0% saturated. Moderate flow from north lateral	0% saturated. Minor gray staining. Low flow from northern lateral manhole	0% saturated. Minor flow from the northern lateral. Water slowly drips onto boom from lateral but no real staining or oil observed on boom	0% saturated. Minor flow from the northern lateral. Water slowly drips onto boom from lateral but no real staining or oil observed on boom	0% saturated. Minor flow from the northern lateral. Water slowly drips onto boom from lateral but no real staining or oil observed on boom	0% saturated. Removed boom and installed at manhole 3-65	NA
	3-22	**Located Just south of center of building 20**	Manhole cover jammed. Unable to open	Manhole cover jammed. Unable to open	No longer monitoring	NA	NA	NA	5% saturated. Brown staining
	3-48-1	**Located just east of Building 65**	0% saturated. Some gray staining	25% saturated. Gray, brown, black staining	5% saturated. Gray, brown, black staining	5% saturated. Gray staining	5% saturated. Gray staining	40 % saturated. Boom covered in slime-like material. Significant change from last week.	40 % saturated. Boom covered in slime-like material.
	3-46	**Located just northwest of Building 71B**	5% saturated. Some minor black/brown staining	5% saturated. Some minor black/brown staining	5% saturated. Some minor brown staining	5% saturated. Brown staining	5% saturated. Brown staining	15% saturated. Boom has black slime-like material.	15% saturated. Boom has black slime-like material.
	3-25-1	**Located in north/central portion of building 43**	0% saturated. Minor brown staining	0% saturated. Minor brown staining	0% saturated. Minor brown staining	0% saturated. Minor brown staining	0% saturated. Minor brown staining	5 % saturated. Removed and disposed of boom	NA

Table X-24 **Boom Study Data Summary**
RACER Trust, Buick City Site, Flint, Michigan

Stage	Manhole #	Location	5/4/2012	5/10/2012	5/17/2012	5/25/2012	6/1/2012	6/7/2012	6/15/2012
4th Stage of booms installed	3-39		NA	NA	NA	NA	NA	Installed new boom	0% saturated. Minimal brown staining.
	3-40		NA	NA	NA	NA	NA	Cannot locate manhole	
	3-41		NA	NA	NA	NA	NA	Area where manhole is located was covered with crushed stone. Attempted to shovel away gravel in areas but still could not locate	NA
	3-42		NA	NA	NA	NA	NA	Lid is jammed. Cannot pull lid	NA
	3-43		NA	NA	NA	NA	NA	New boom installed	0% saturated. Minimal brown staining.
	3-44		NA	NA	NA	NA	NA	Opened manhole cover. There is no access to storm sewer because the top of the sewer pipe remains intact.	NA
	3-45		NA	NA	NA	NA	NA	Installed new boom	0% saturated. Minimal brown staining.

Table X-24 **Boom Study Data Summary**
RACER Trust, Buick City Site, Flint, Michigan

Stage	Manhole #	Location	6/19/2012	7/13/2012	7/27/2012	8/2/2012	8/16/2012	8/31/2012	9/14/2012
Upgradient Manholes	3-25-3	Just west of center of building 43	NA	NA	NA	NA	NA	NA	NA
	3-26	Just east of center of building 43 near Division Street	NA	NA	NA	NA	NA	NA	NA
	3-31	Just southeast of WWTP	NA	NA	NA	NA	NA	NA	NA
	3-51	Near western border of Site by Building 66	40% saturated. Gray staining	50% saturated. Gray staining	50% saturated. Gray staining	75% saturated. Gray staining	75% saturated. Gray staining	80% saturated. Gray staining	Boom chain broke; Lost boom. Replaced with new Boom.
2nd Stage of booms installed	3-22-1	~300 ft southeast of building 20	5% saturated. Black/brown staining	5% saturated. Black/brown staining	5% saturated. Black/brown staining	5% saturated. Black/brown staining	No Longer Monitoring	No Longer Monitoring	No Longer Monitoring
	3-23	~100 ft southwest of building 20	20% saturated. Red/rust colored staining.	25% saturated. Red/rust brown & grey colored staining.	40% saturated. Red/rust brown & grey colored staining.	50% saturated. Red/rust brown & grey colored staining.	50% saturated. Red/rust brown & grey colored staining.	80% saturated. Red/rust brown & grey colored staining.	80% saturated. Red/rust brown & grey colored staining.
	3-23-2	Inside building 43 footprint just west of MH 3-23	NA	NA	NA	NA	NA	NA	NA
	3-38	Just south of Interceptor #2 (BOB 2)	0% saturated. Minimal brown staining.	0% saturated. Minimal brown staining.	15% saturated. Minimal brown staining.	30% saturated. Minimal brown staining.	40% saturated. Brown staining.	50% saturated. Brown staining.	50% saturated. Brown staining.

Table X-24 **Boom Study Data Summary**
RACER Trust, Buick City Site, Flint, Michigan

Stage	Manhole #	Location	6/19/2012	7/13/2012	7/27/2012	8/2/2012	8/16/2012	8/31/2012	9/14/2012
	3-65	**~400 feet south of Interceptor #2 (BOB 2)**	5% saturated. Black/brown staining	100% saturated. Black/brown staining	40% saturated. Black/brown staining	50% saturated. Black/brown staining	100% saturated. Black/brown staining. Changed boom - removed from 3-39 and installed (15% sat.)	100% saturated. Black/brown staining. Changed boom - removed from 3-46 and installed (15% sat.)	60% saturated. Black/brown staining.
3nd Stage of booms installed	**3-73**	**Located just north of center of building 21**	100% saturated. Light brown and black staining. Changed boom	100% saturated. Light brown and black staining.	60% saturated. Light brown and black staining.	80% saturated. Light brown and black staining.	100% saturated. Light brown and black staining. Changed boom. Removed boom from 3-43 and installed (5% sat.)	40% saturated. Light brown and black staining.	75% saturated. Light brown and black staining.
	3-15	**Located Just northwest of Interceptor #2**	NA	NA	NA	NA	NA	NA	NA
	3-22	**Located Just south of center of building 20**	5% saturated. Brown staining	5% saturated. Brown staining	5% saturated. Brown staining	15% saturated. Brown staining	No Longer Monitoring	No Longer Monitoring	No Longer Monitoring
	3-48-1	**Located just east of Building 65**	41 % saturated. Boom covered in slime-like material.	100% saturated. Black Staining. Boom covered in slime-like material.	0% saturated. Some black staining. Boom covered in slime-like material.	15% saturated. Some black staining. Boom covered in slime-like material.	100% saturated. Black staining. Boom covered in slime-like material. Installed boom from 3-45 (5% sat.)	5% saturated. Black staining. Boom covered in slime-like material.	20% saturated. Black staining. Boom covered in slime-like material.
	3-46	**Located just northwest of Building 71B**	15% saturated. Boom has black slime-like material.	15% saturated. Boom has black slime-like material.	15% saturated. Boom has black slime-like material.	15% saturated. Boom has black slime-like material.	No Longer Monitoring	No Longer Monitoring (boom removed 8/31/2012)	NA
	3-25-1	**Located in north/central portion of building 43**	NA	NA	NA	NA	NA	NA	NA

Table X-24 **Boom Study Data Summary**
RACER Trust, Buick City Site, Flint, Michigan

Stage	Manhole #	Location	6/19/2012	7/13/2012	7/27/2012	8/2/2012	8/16/2012	8/31/2012	9/14/2012
4th Stage of booms installed	3-39		0% saturated. Minimal brown staining.	5% saturated. Minimal brown staining.	10% saturated. Minimal brown staining.	20% saturated. Brown staining.	No Longer Monitoring (boom removed 8/16/12)	NA	NA
	3-40							NA	NA
	3-41		NA	NA	NA	NA	NA	NA	NA
	3-42		NA	NA	NA	NA	NA	NA	NA
	3-43		0% saturated. Minimal brown staining.	5% saturated. Minimal brown staining.	5% saturated. Minimal brown staining.	5% saturated. Minimal brown staining.	No Longer Monitoring (boom removed 8/16/12)	NA	NA
	3-44		NA	NA	NA	NA	NA	NA	NA
	3-45		0% saturated. Minimal brown staining.	5% saturated. Minimal brown staining.	5% saturated. Minimal brown staining.	5% saturated. Minimal brown staining.	No Longer Monitoring (boom removed 8/16/12)	NA	NA

Table X-24 **Boom Study Data Summary**
RACER Trust, Buick City Site, Flint, Michigan

Stage	Manhole #	Location	10/5/2012	10/24/2012	11/12/2012	11/27/2012	12/12/2012	1/9/2013	1/23/2013
Upgradient Manholes	3-25-3	Just west of center of building 43	NA	NA	NA	NA	NA	NA	NA
	3-26	Just east of center of building 43 near Division Street	NA	NA	NA	NA	NA	NA	NA
	3-31	Just southeast of WWTP	NA	NA	NA	NA	NA	NA	NA
	3-51	Near western border of Site by Building 66	0% saturated. Minimal staining	5% saturated. Light gray staining.	10% saturated. Light and dark gray staining.	10% saturated. Light and dark gray staining.	10% saturated. Light and dark gray staining.	10% saturated. Light and dark gray staining.	10% saturated. Light and dark gray staining.
2nd Stage of booms installed	3-22-1	~300 ft southeast of building 20	No Longer Monitoring	No Longer Monitoring	NA	NA	NA	NA	NA
	3-23	~100 ft southwest of building 20	80% saturated. Red/rust brown & grey colored staining.	80% saturated. Red/rust brown & grey colored staining.	100% saturated. Red/rust brown & grey colored staining. Installed new boom.	50% saturated. Red/rust brown & grey colored staining.	85% saturated. Red/rust brown & grey colored staining.	85% saturated. Red/rust brown & grey colored staining.	85% saturated. Red/rust brown & grey colored staining.
	3-23-2	Inside building 43 footprint just west of MH 3-23	NA	NA	NA	NA	NA	NA	NA
	3-38	Just south of Interceptor #2 (BOB 2)	50% saturated. Brown staining.	50% saturated. Brown staining.	50% saturated. Brown staining.	50% saturated. Brown staining.	70% saturated. Brown staining.	70% saturated. Brown staining.	70% saturated. Brown staining.

Table X-24 **Boom Study Data Summary**
RACER Trust, Buick City Site, Flint, Michigan

Stage	Manhole #	Location	10/5/2012	10/24/2012	11/12/2012	11/27/2012	12/12/2012	1/9/2013	1/23/2013
	3-65	**~400 feet south of Interceptor #2 (BOB 2)**	80% saturated. Black/brown staining.	100% saturated. Black/brown staining. Installed new boom.	75% saturated. Black/brown staining.	100% saturated. Black/brown staining. Installed new boom.	50% saturated. Black/brown staining.	70% saturated. Black/brown staining.	70% saturated. Black/brown staining.
3nd Stage of booms installed	**3-73**	**Located just north of center of building 21**	100% saturated. Light brown and black staining. Installed new boom.	100% saturated. Light brown and black staining. Installed new boom.	85% saturated. Light brown and black staining.	100% saturated. Black/brown staining. Installed new boom.	65% saturated. Black/brown staining.	100% saturated. Black/brown staining. *Installed new boom.	Not Accessible. Frozen Shut.
	3-15	**Located Just northwest of Interceptor #2**	NA	NA	NA	NA	NA	NA	NA
	3-22	**Located Just south of center of building 20**	No Longer Monitoring	No Longer Monitoring	No Longer Monitoring	NA	NA	NA	NA
	3-48-1	**Located just east of Building 65**	100% saturated. Black staining. Boom covered in black slime-like material. Installed new boom.	0% saturated. Some minor black staining.	10% saturated. Some minor black staining.	10% saturated. Some minor black staining.	10% saturated. Some minor black staining. Boom covered in slime-like material	15% saturated. Some minor black staining. Boom covered in slime-like material	15% saturated. Black staining on entire boom. Boom covered in slime-like material
	3-46	**Located just northwest of Building 71B**	NA	NA	NA	NA	NA	NA	NA
	3-25-1	**Located in north/central portion of building 43**	NA	NA	NA	NA	NA	NA	NA

Table X-24 **Boom Study Data Summary**
RACER Trust, Buick City Site, Flint, Michigan

Stage	Manhole #	Location	10/5/2012	10/24/2012	11/12/2012	11/27/2012	12/12/2012	1/9/2013	1/23/2013
4th Stage of booms installed	3-39		NA	NA	NA	NA	NA	NA	NA
	3-40		NA	NA	NA	NA	NA	NA	NA
	3-41		NA	NA	NA	NA	NA	NA	NA
	3-42		NA	NA	NA	NA	NA	NA	NA
	3-43		NA	NA	NA	NA	NA	NA	NA
	3-44		NA	NA	NA	NA	NA	NA	NA
	3-45		NA	NA	NA	NA	NA	NA	NA

Table X-25 **Outfall 005 Manhole 5-4 Inspections**
RACER Trust, Buick City Site, Flint, Michigan

Boom Change Out	Notes:
Date:	
Time:	
Outfall pumping	Notes:
Date:	
Time:	

Date	Time	Outfall conditions	Manhole conditions
5/25/2011	1130	clear	boom is 80% saturated, still functional
6/7/2011	1340	clear	boom is 80% saturated, still functional
6/15/2011	1545	clear	no changes noted

Boom Change Out	Notes:
Date: 6/24/2011	Change out boom, install 5"x10' spaghetti boom
Time:	
Outfall pumping	Notes:
Date: NA	Outfalls not pumped at time of boom installation
Time: NA	

Date	Time	Outfall conditions	Manhole conditions
7/8/2011	na	CL	slight discoloration, no sign of absorption
7/14/2011	na	CL	increase discoloration, trace absorption
7/20/2011	NA	CL	increased absorption, less than 1/4
7/25/2011	NA	CL	approx 1/2 saturated
8/5/2011		CL	approx 75% saturated, no damage

Boom Change Out	Notes:
Date: 8/10/2011	Change out boom, 75% saturated and beginning to become damaged
Time:	
Outfall pumping	Notes:
Date: 8/10/2011	CL
Time: NA	

Date	Time	Outfall conditions	Manhole conditions
8/17/2011		CL	trace saturation
8/24/2011		CL	15% saturated
9/1/2011		CL	~20% saturated
9/12/2011		trace EO	~40% saturated, light oil

Table X-25 **Outfall 005 Manhole 5-4 Inspections**
RACER Trust, Buick City Site, Flint, Michigan

Boom Change Out		Notes:	
Date:	9/21/2011	Change out boom due to saturation (~75%) and damage	
Time:			
Outfall pumping		Notes:	
Date:		Last pumping on 9/8. Outfall conditions on 9/21, <10% EO	
Time:	NA		
Date	**Time**	**Outfall conditions**	**Manhole conditions**
9/28/2011		<10% EO	25% saturated
10/7/2011		<10% EO	40% saturated
10/12/11		<10% EO	50% saturated
10/21/11		<10% EO	75% saturated
Boom Change Out		Notes:	
Date:	10/27/2011	Change out boom due to saturation (~100%)	
Time:			
Outfall pumping		Notes:	
Date:			
Time:	NA		
Date	**Time**	**Outfall conditions**	**Manhole conditions**
11/2/11		Trace EO	20% saturated
Boom Change Out		Notes:	
Date:	11/10/2011	Change out boom due to saturation (~100%)	
Time:			
Outfall pumping		Notes:	
Date:		Trace EO, contained	
Time:	NA		
Date	**Time**	**Outfall conditions**	**Manhole conditions**
11/15/11		CL	10% saturated
11/22/11		<10% FO, C Film	25% saturated
12/8/11		25% EO (thicker), C	<15% saturated
12/14/11			<5% saturated, rust colored staining
1/3/12			Manhole lid frozen

Table X-25 **Outfall 005 Manhole 5-4 Inspections**
RACER Trust, Buick City Site, Flint, Michigan

1/17/12			5% saturated, rust colored staining on 50% of boom
2/9/12			10% saturated, brown and rust colored staining on 50% of boom
2/24/12			10% saturated, brown and rust colored staining on 50% of boom
3/7/12			10% saturated, brown and rust colored staining on 50% of boom
3/22/12			10% saturated, rust colored staining on 60% of boom
4/2/12			10% saturated, rust/red staining on boom
4/12/12			10% saturated, rust/brown colored staining
5/4/12			10% saturated, red/brown staining
5/10/12			5% saturated, red/brown staining (feels lighter)
5/18/12			0% saturated, red/rust colored staining
5/25/12			0% saturated, red/rust colored staining
6/1/12			0% saturated, red/rust colored staining
6/15/12			0% saturated, red/rust colored staining
6/21/12			0% saturated, red/rust colored staining
DP = discharge point			

Table X-25 **Outfall 005 Manhole 5-5 Inspections**
RACER Trust, Buick City Site, Flint, Michigan

Boom Change Out		Notes:	
Date: Time:			
Outfall pumping		Notes:	
Date: Time:			
Date	**Time**	**Outfall conditions**	**Manhole conditions**
5/17/2011		clear	boom is 20% saturated, still functional
5/25/2011	1145	clear	boom is 80% saturated, still functional
6/7/2011	1330	clear	boom is 80% saturated, still functional
6/15/2011	1538	clear	no changes noted
Boom Change Out		Notes:	
Date:	6/24/2011	Change out boom, install 5"x10' spaghetti boom	
Time:			
Outfall pumping		Notes:	
Date:		Outfalls not pumped at time of boom installation	
Time:			
Date	**Time**	**Outfall conditions**	**Manhole conditions**
7/8/2011	NA	CL	slight discoloration, no sign of absorption
7/14/2011	NA	CL	increase discoloration, trace absorption
7/20/2011	NA	CL	same discoloration, trace absorption
7/25/2011	NA	CL	approx 1/4 saturated
There is no longer an accessable anchor point in the manhole, ladder rung broken.			

Table X-26 **2013 Boom Study Investigation**
RACER Trust, Buick City Site, Flint, Michigan

Date	3-23						
	Saturation Level	Discoloration	Color	Flow	Sheen Present	Boom Replaced	Notes
							Booms Installed
6/28/2013	100%	Y	Brown	<6"	N	N	-
7/3/2013	-	-	-	-	-	Y	Booms Replaced
7/8/2013	40%	Y	Brown	<6"	N	N	-
7/15/2013	75%	Y	Brown	<6"	N	N	-
7/23/2013	80%	Y	Brown	<6"	N	N	-
8/5/2013	100%	Y	Brown	<6"	N	Y	Booms Replaced. Installed 3"x10'
8/7/2013	20%	Y	Brown	~3-4"	N	N	-
8/13/2013	50%	Y	Brown	~1-2"	N	N	-
8/21/2013	65%	Y	Brown	~1-2"	N	N	
8/27/2013	75%	Y	Brown	~1-2"	N	N	
9/3/2013	85%	Y	Brown	~1-2"	N	Y	Boom Replaced

Date	3-22						
	Saturation Level	Discoloration	Color	Flow	Sheen Present	Boom Replaced	Notes
1/0/1900							
6/28/2013	75%	Y	Brown	<6"	Y	N	-
7/3/2013	-	-	-	-	-	Y	Booms Replaced
7/8/2013	40%	Y	Brown	<6"	Y	N	-
7/15/2013	75%	Y	Brown	<6"	Y	N	-
7/23/2013	80%	Y	Brown	<6"	Y	N	-
8/5/2013	100%	Y	Brown	<6"	Y	Y	Booms Replaced. Installed 3"x10'
8/7/2013	50%	Y	Brown	~3-4"	Y	Y	-
8/13/2013	75%	Y	Brown	~1-2"	Y	N	-
8/21/2013	80%	Y	Brown	~1-2"	Y	N	
8/27/2013	90%	Y	Brown	~1-2"	Y	N	
9/3/2013	100%	Y	Brown	~1-2"	Y	Y	Boom Replaced

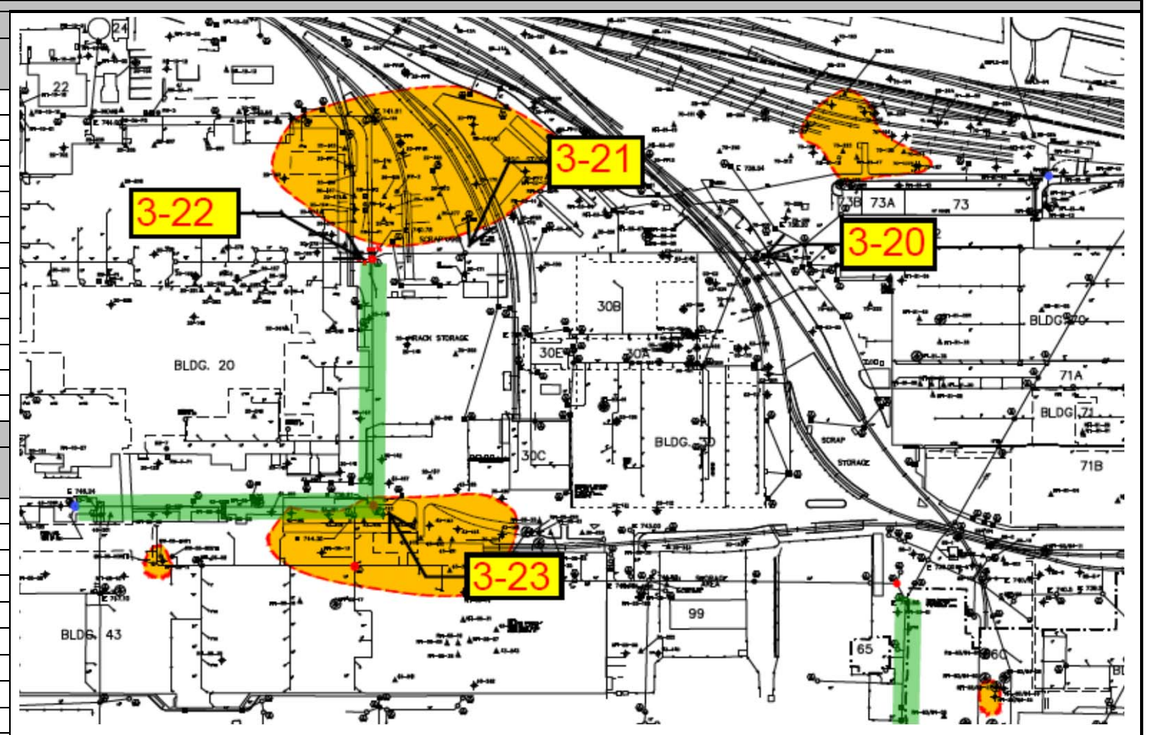


Table X-26 **2013 Boom Study Investigation**
RACER Trust, Buick City Site, Flint, Michigan

Date	3-21						
	Saturation Level	Discoloration	Color	Flow	Sheen Present	Boom Replaced	Notes
1/0/1900							
6/28/2013	0%	N	White	1'	N	N	Suspect Wrong MH location
7/3/2013	-	-	-	-	-	Y	Booms Replaced
7/8/2013	30%	Y	Brown	3"	N	N	-
7/15/2013	60%	Y	Brown	3"	N	N	-
7/23/2013	75%	Y	Brown	3"	Y	N	
8/5/2013	100%	Y	Brown	3"	Y	Y	Booms Replaced. Installed 3"x10'
8/7/2013	20%	Y	Brown	3"	Y	N	-
8/13/2013	40%	Y	Brown	~1-2"	Y	N	-
8/21/2013	50%	Y	Brown	~1-2"	Y	N	
8/27/2013	75%	Y	Brown	~1-2"	Y	N	
9/3/2013	100%	Y	Brown	~1-2"	Y	N	Boom Replaced

Date	3-20						
	Saturation Level	Discoloration	Color	Flow	Sheen Present	Boom Replaced	Notes
1/0/1900							
6/28/2013	40%	Y	Brown	<6"	Y	N	-
7/3/2013	-	-	-	-	-	Y	Boom Replaced
7/8/2013	60%	Y	Brown	3"	Y	N	-
7/15/2013	75%	Y	Brown	3"	Y	N	-
7/23/2013	80%	Y	Brown	3"	Y	N	-
8/5/2013	100%	Y	Brown	3"	Y	N	Booms Replaced. Installed 3"x10'
8/7/2013	20%	Y	Brown	3"	Y	Y	-
8/13/2013	25%	Y	Brown	~1-2"	Y	N	-
8/21/2013	25%	Y	Brown	~1-2"	Y	N	-
8/27/2013	40%	Y	Brown	~1-2"	Y	N	-
9/3/2013	50%	Y	Brown	~1-2"	Y	N	-

Misc. Notes

Project #: B0064410.2013.01302
DWD: 2013 Boom Study Investigation

Boom Info: Source = New Pig
Attention: Terri
Telephone: 1-800-468-4647ext. 2072
Email: territ@newpig.com

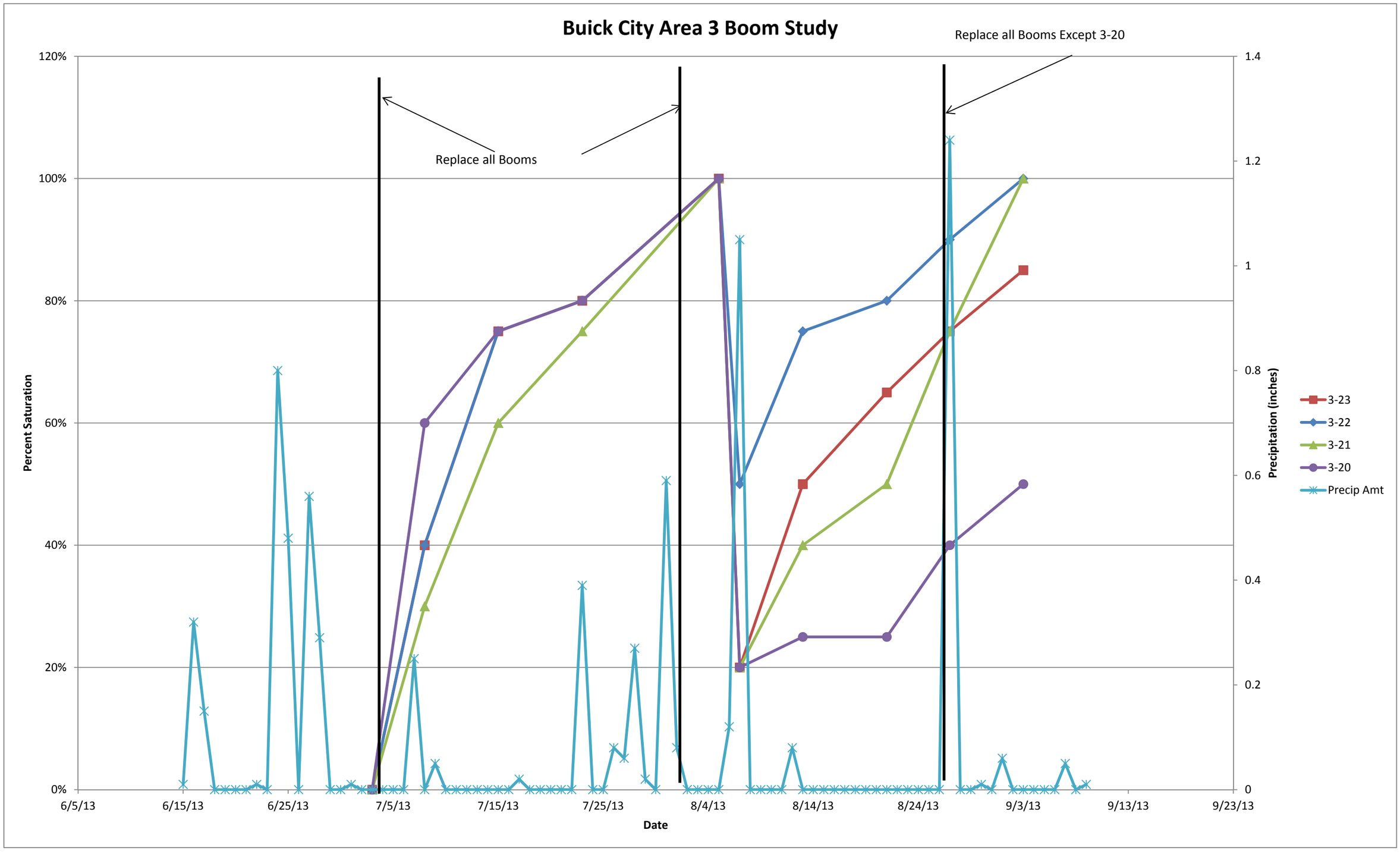
PIG Oil-Only Spaghetti Boom 3" x 10' absorbs 2 gal per boom

Item # BOM204

Inventory

Item # BOM204

Buick City Area 3 Boom Study



Appendix Y

Pertinent Site Reports - On CD

Appendix Z

Example Restrictive Covenant

RECEIVED
OAKLAND COUNTY
REGISTER OF DEEDS
2014 SEP -4 PM 1:44

169831
LIBER 47370 PAGE 378
$58.00 MISC RECORDING
$4.00 REMONUMENTATION
09/04/2014 02:10:57 P.M. RECEIPT# 86019
PAID RECORDED - OAKLAND COUNTY
LISA BROWN, CLERK/REGISTER OF DEEDS

DECLARATION OF RESTRICTIVE COVENANT

MDEQ Reference No.: RC-WHMD-111-14-006
Facility MID Number: MID005356902

This Declaration of Restrictive Covenant (Restrictive Covenant) is made to protect public health, safety, welfare, and the environment pursuant to the provisions of Part 111, Hazardous Waste Management, Michigan Compiled Laws (MCL) 324.11101 *et seq.* (Part 111) and the applicable Sections of Part 201, Environmental Remediation, MCL 324.20101 *et seq.* (Part 201) of the Natural Resources and Environmental Protection Act (NREPA), 1994 PA 451, as amended, MCL 324.101 *et seq.* and the Solid Waste Disposal Act, commonly referred to as the Resource Conservation and Recovery Act of 1976 (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984, 42 U.S.C. §§ 6901 *et seq.*

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This Restrictive Covenant is made on 21st day of August, 2014 by RACER Properties LLC, the Grantor, an entity wholly owned by the Revitalizing Auto Communities Environmental Response Trust (Trust) and the current fee title holder of the Property, formerly owned by General Motors Corporation (GM Corp.), such Property legally described in Exhibit 1 and depicted in Exhibit 2, the address of which is 660 South Boulevard East, Pontiac, Michigan, 48341, Tax Identification Numbers 19-03-101-003 and 19-04-226-020, for the benefit of the Grantee, the State of Michigan, Department of Environment Quality (MDEQ), 525 West Allegan Street, P.O. Box 30473, Lansing, Michigan 48909-7926.

This Restrictive Covenant has been made to prohibit or restrict activities that could result in unacceptable exposure to environmental contamination present at the Property. There is an existing Restrictive Covenant on the Property dated March 30, 2007 and filed with the Oakland County Register of Deeds on April 13, 2007 (2007 Restrictive Covenant), which includes certain land and resource use restrictions, soil management provisions, monitoring well coordination, and prohibition of installation of wells to extract groundwater for potable use.

The land and resource restrictions contained in the present Restrictive Covenant are based upon information available to MDEQ and the United States Environmental Protection Agency (USEPA) at the time this Restrictive Covenant was recorded. Failure of the corrective measures to achieve and maintain the cleanup criteria, exposure controls, and requirements specified in the Corrective Action Complete with Controls Report for the Property (CACC Report – to be filed after recording of this Restrictive Covenant); future changes in the environmental condition of the Property or changes in the cleanup criteria developed under Parts 111 and 201 of NREPA; the discovery of

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environmental conditions at the Property that were not accounted for in the CACC Report; or use of the Property in a manner inconsistent with the restrictions described herein or in the 2007 Restrictive Covenant – each may result in this Restrictive Covenant not being protective of public health, safety, and welfare, and the environment. Additional restrictions may become necessary.

Summary of Corrective Measures

In 1998, GM Corp. began RCRA Corrective Action activities at its Pontiac Centerpoint Campus (PCC), USEPA Site Identification No. MID005356902, under an Administrative Order on Consent with USEPA. The Property (which is now owned entirely by the Grantor) is a portion of PCC and generally consists of Area of Interest (AOI) #53 (Building 33), AOI #52 (Dyno Tank Farm), AOI #50 (Duco Stores), and AOI #49 (Former Coal Pile Storage Area). As documented in the August 3, 2006, USEPA Response to Comments and Final Decision, the final corrective measures at the Property include:

- Institutional controls to prohibit use of shallow groundwater for potable use and to restrict land use for any purpose other than commercial/industrial (i.e. non-residential)
- Recovery of light non-aqueous phase liquid (LNAPL) at AOI #53
- Implementation of a long-term groundwater monitoring program at AOI #53
- Underground storage tank closure under Michigan Act 451 Part 213 at AOI #50 and AOI #52

USEPA concurred with a recommendation to terminate LNAPL recovery at AOI #53 in a May 6, 2009 letter. The long term groundwater monitoring at AOI #53 was completed in 2010.

On March 31, 2011, the Trust took title to the Property, and subsequently conveyed it to RACER Properties LLC, an entity wholly owned by the Trust. The Trust was established and assumed the rights, title, and interest of Motors Liquidation Company (as successor to GM Corp.) in and to the Property pursuant to an Environmental Response Trust Consent Decree and Settlement Agreement ("Settlement Agreement") entered by the U.S. Bankruptcy Court for the Southern District of New York on March 29, 2011, in the case of *In re Motors Liquidation Company*, etc. et al., Debtors, Case No. 09-50026 (REG), among the Debtors, the United States of America, certain states including the State of Michigan, the Saint Regis Mohawk Tribe, and EPLET, LLC (not individually but solely in its representative capacity as Administrative Trustee of the Trust).

USEPA preliminarily approved a RCRA CACC Report for the Property with the exception of confirmed MDEQ release numbers C-0235-90, C-0776-90, and C-1831-91(AOI #50 (DUCO Stores)). Subsequently it was agreed upon between USEPA and MDEQ that the above releases at AOI #50 would be addressed pursuant to RCRA Corrective Action under USEPA oversight.

Based on the existing information from the investigations conducted at the Property, constituents were detected in soil above residential, groundwater-surface water interface (GSI), and non-residential cleanup criteria. Because the Property will be restricted to non-residential, residential criteria do not apply to it. Constituents at the Property detected at concentrations that exceed non-residential criteria include: 1,1-dichloroethene, 1,1,1-trichloroethane, 1,2,4-trimethylbenzene,

1,3,5-trimethylbenzene, benzene, ethylbenzene, lead, methyl tertbutyl ether, naphthalene, phenanthrene, tetrachloroethene, toluene, trichloroethene, vinyl chloride, and xylenes.

Soil and groundwater contamination remain at levels that do not allow unrestricted use of the Property. Public health will be protected by limiting the use of the Property to non-residential (Exhibit 3), prohibiting the use of groundwater, and requiring a vapor intrusion assessment to be completed or a vapor barrier and/or mitigation system installed prior to construction of any new building(s) or occupying the designated portion of the existing building (as identified in Exhibit 4). Restricting the Property to uses consistent with the exposure assumptions identified above will allow the use to be protective of the public health, safety, and welfare, and the environment.

Definitions

"Grantee" shall mean MDEQ, its respective successor entities, and those persons or entities acting on its behalf.

"Grantor" shall mean RACER Properties LLC, an entity wholly-owned by the Trust, the title holder of the Property at the time this Restrictive Covenant was executed, or any future title holder of the Property or some relevant sub-portion of the Property.

"MDEQ" means the Michigan Department of Environmental Quality, its successor entities, and those persons or entities acting on its behalf.

"NREPA" shall mean the Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, MCL 324.101 *et seq*.

"Owner" means at any given time the then-current fee title holder(s) and the holder(s) of a life estate of the Property or any portion thereof, including the fee title holder's lessees and those persons or entities authorized to act on the fee title holder's behalf.

"Part 201" shall mean Part 201, Environmental Remediation, of NREPA.

"Property" shall mean the property legally described in Exhibit 1.

"USEPA" means the United States Environmental Protection Agency, its successor entities, and those persons or entities acting on its behalf.

All other terms used in this document which are defined in Part 3, Definitions, of NREPA, Part 111, Part 201, or the Part 111 and Part 201 Administrative Rules, shall have the same meaning in this document as in those statutes and rules as on the date this Restrictive Covenant is made.

NOW THEREFORE,

Declaration of Land Use and Resource Use Restrictions

The Grantor, as current fee title holder of the Property, hereby declares and covenants that the Property shall be subject to those restrictions on use described below, in addition to the restrictions in the 2007 Restrictive Covenant, and intends that said restrictions and covenants shall run with the land, and may be enforced in perpetuity against the Owner by the following entities: (1) the Grantor, if it is no longer owner; (2) MDEQ; or (3) USEPA.

1. Land Use Prohibitions. The Owner shall prohibit all uses of the Property that are not compatible with the non-residential land use category under MCL 324.20120a(1)(b) and generally described in the Description of Allowable Uses, attached hereto as Exhibit 3.

   Part 201 cleanup criteria for land use-based response activities are located in the Government Documents Section of the State of Michigan Library, MCL 324.201201 *et seq*. effective December 31, 2013, and Michigan Administrative Code (MAC) Rule (R) 299.5701 – R 299.5727, effective December 31, 2013.

2. Activities Prohibited. The Owner shall prohibit activities on the Property that may result in exposures above the non-residential land use category. These prohibited activities include:

   a. No drinking water wells may be installed or used on the Property.

   b. No groundwater extraction wells may be installed or used on the Property, except for wells and devices that are part of an MDEQ- or USEPA-approved response activity and for short-term dewatering for construction purposes, provided the dewatering, including management and disposal of the groundwater, is conducted in accordance with all applicable environmental laws and does not cause or result in a new release, exacerbation of any pre-existing environmental condition, or any other violation of environmental laws.

   c. No excavation and transport of any saturated soils from the Property may be completed without MDEQ or USEPA approval.

   d. No contaminated soils may be relocated on the Property except as provided for under Part 201, Section 20120c, MCL 324.20120c.

   e. If Owner elects to remove any slabs, pavement, or other impervious surface on the Property, Owner shall be responsible for any and all obligations under environmental laws arising from any such removal, alteration, or disturbance, whether or not caused by, arising from or related to, an environmental condition.

3. Monitoring Wells. The Owner shall not remove, disturb, or damage any monitoring wells on the Property without MDEQ or USEPA approval.

4. Contaminated Soil Management. The Owner shall manage contaminated soils, media, and/or debris and all other soils located on the Property in accordance with the requirements of Part 111 and RCRA Subtitle C, the administrative rules promulgated pursuant to Part 111 and RCRA, and all other relevant state and federal laws, including but not limited to MCL 324.20120c; this provision regarding contaminated soil management also applies in the event that the Owner elects to remove any slabs, pavement, or other impervious surface on the Property.

5. Soil Vapor Management. The Owner shall not build on or occupy the portion of the Property included in the vapor intrusion (VI) restriction areas of the Property identified in Exhibit 4 without first completing one of the following:

   Option 1) Demonstrate to the satisfaction of MDEQ and USEPA the absence of an unacceptable vapor intrusion risk to human health in the existing or any newly constructed buildings in the area identified in Exhibit 4; or

   Option 2) With concurrence from MDEQ or USEPA, install, operate and maintain a vapor barrier and/or mitigation system designed to eliminate the potential for subsurface vapor phase hazardous substances to migrate into any building at concentrations greater than applicable criteria. Continued operation and maintenance of the vapor barrier and/or mitigation system is required until evidence is presented to MDEQ and USEPA consistent with Option 1 above. The prohibition not to build on or occupy the portion of the Property included in the VI restriction areas does not apply to short-term occupancy of a building solely for purposes of construction, renovation, repair, or other necessary short-term activities as long as adequate health and safety precautions for workers involved in such construction, renovation, repair, or other short term activities are employed during these activities, and these activities are performed in compliance with Section 20107a of NREPA. Such short-term activities and short-term occupancy would not be expected to exceed six months in duration, and MDEQ or USEPA must be informed if the activities or occupancy are expected to exceed six months.

6. Access. The Owner shall grant to MDEQ and USEPA the right to enter the Property at reasonable times for the purpose of determining and monitoring compliance with this Restrictive Covenant, including the right to take samples, inspect the operation of the corrective measures, and inspect any records relating thereto, and to perform any actions necessary to maintain compliance with Parts 111 and 201, applicable federal laws and regulations, and the USEPA Final Decision and the subsequent CACC Report.

7. Transfer of Interest. The Grantor shall provide notice at the addresses provided in this document to MDEQ and USEPA of the Grantor's intent to transfer any interest in the Property, or any portion thereof, at least fourteen (14) business days prior to consummating the conveyance. A conveyance of title, easement, or other interest in the Property shall not be consummated by Grantor without adequate and complete provision for compliance with the terms and conditions of this Restrictive Covenant and the applicable provisions of Section 20116 of NREPA. The Grantor shall include in any

instrument conveying any interest in any portion of the Property, including, but not limited to, deeds, leases, and mortgages, a notice which is in substantially the following form:

NOTICE: THE INTEREST CONVEYED HEREBY IS SUBJECT TO A DECLARATION OF RESTRICTIVE COVENANT AND ENVIRONMENTAL PROTECTION EASEMENT, DATED _____[*month, day, year*], AND RECORDED WITH THE OAKLAND COUNTY REGISTER OF DEEDS, LIBER _____, PAGE _____.

8. Notices. Any notice, demand, request, consent, approval, or communication that is required to be made or obtained under this Restrictive Covenant shall be made in writing; include a statement that the notice is being made pursuant to the requirements of this Restrictive Covenant; include the Facility MID Number: MID005356902 and MDEQ Reference Number: RC-WHMD-111-14-006; and shall be served either personally, or sent via first class mail, postage prepaid, as follows:

For USEPA:

Director
Land and Chemicals Division (DR-8J)
U.S. Environmental Protection Agency, Region 5
77 West Jackson Blvd.
Chicago, IL 60604

with a copy to:

Office of Regional Counsel (C-14J)
U.S. Environmental Protection Agency, Region 5
77 West Jackson Blvd.
Chicago, IL 60604

For MDEQ:

Chief
Office of Waste Management and Radiological Protection
Michigan Department of Environmental Quality
P.O. Box 30241
Lansing, MI 48909-7741

9. Term. This Restrictive Covenant shall run with the Property and shall be binding on the Owner, and all current and future successors, lessees, easement holders, their assigns, and their authorized agents, employees, or persons acting under their direction and control.

10. Enforcement. The Grantor is entitled to enforce the restrictions and covenants of this Restrictive Covenant by specific performance or other legal action in a court of competent jurisdiction against subsequent Owners of all or part of the Property. The Grantor, on

behalf of itself, and its successors in title, intends and agrees that MDEQ and USEPA are entitled to enforce the restrictions and covenants in this Restrictive Covenant by specific performance or other legal action in a court of competent jurisdiction against the Grantor, as Owner, and thereafter against subsequent Owners of all or part of the Property. All remedies available hereunder shall be in addition to any and all other remedies at law or equity.

11. Third Party Beneficiary. The Grantor, on behalf of itself and its successors, and assigns, hereby agrees that the United States, acting by and through USEPA, its successors and assigns shall be a third party beneficiary (Third Party Beneficiary) of all the benefits and rights set out in the restrictions, covenants, easements, exceptions, notifications, conditions, and agreements herein, and that the Third Party Beneficiary shall have the right to enforce the restrictions described herein as if it was a party hereto. No other rights in third parties are intended by this Restrictive Covenant, and no other person or entity shall have any rights or authorities hereunder to enforce these restrictions, terms, conditions or obligations beyond the Grantor, MDEQ, and their successors and assigns, and the Third Party Beneficiary.

12. USEPA Entry and Access. Nothing in this Restrictive Covenant shall limit or otherwise affect USEPA's right of entry and access, or authority to undertake actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA, 42 U.S.C. §§ 9601 *et seq.*) or under the National Contingency Plan (40 C.F.R. Part 300), and any successor statutory provisions, or other state or federal law. The Grantor consents to officers, employees, contractors, and authorized representatives of USEPA entering and having continued access to this Property for the purposes described in Paragraph 6 (Access) of this Restrictive Covenant.

13. Modification / Release / Rescission. The Grantor or Owner may request in writing to MDEQ or USEPA, at the addresses provided in herein, modifications to, or release or rescission of, this Restrictive Covenant. This Restrictive Covenant may be modified, released or rescinded only with the written approval of the USEPA and MDEQ. Any approved modification to, or release or rescission of, this Restrictive Covenant shall be filed with the appropriate Registrar of Deeds by the Grantor or Owner and a certified copy shall be returned to MDEQ and USEPA at the addresses provided herein.

14. Severability. If any provision of this Restrictive Covenant is held to be invalid by a court of competent jurisdiction, the invalidity of such provision shall not affect the validity of any other provisions of this Restrictive Covenant, and all other provisions shall continue to remain in full force and effect.

15. Limitation on the Trust's Liability. The Trust's and the Administrative Trustee's liability is limited by the terms and conditions of the Settlement Agreement, which are incorporated herein by reference.

16. Authority to Execute Restrictive Covenant. The undersigned person executing this Restrictive Covenant represents and certifies that he or she is duly authorized and has been empowered to execute and deliver this Restrictive Covenant.

17. Miscellaneous:

a. Controlling Law: The interpretation and performance of this Restrictive Covenant shall be governed by the laws of the United States as to the obligations referred to in the 1998 Administrative Order on Consent, the USEPA Final Decision, and the CACC Report; and regulations of the State of Michigan for all other purposes hereunder (without reference to choice of laws principles thereof). The right to enforce the conditions and restrictions in this Restrictive Covenant are in addition to other rights and remedies that may be available, including, but not limited to, administrative and judicial remedies under CERCLA or Part 201 of NREPA.

b. Liberal Construction: Any general rule of construction to the contrary notwithstanding, this Restrictive Covenant shall be liberally construed to affect the purpose of this Restrictive Covenant, the 2007 Restrictive Covenant, and the policy and purpose of RCRA and the land use restrictions and prospective use limitations required by Part 201. If any provision of this Restrictive Covenant is found to be ambiguous, an interpretation consistent with the purpose of this Restrictive Covenant and the 2007 Restrictive Covenant that would render the provision valid shall be favored over any interpretation that would render it invalid.

[Signatures follow]

IN WITNESS WHEREOF, RACER Properties LLC has caused this Restrictive Covenant, RC-WHMD-111-14-006, to be executed on this 21st day of August, 2014.

RACER PROPERTIES LLC

By: Revitalizing Auto Communities Environmental Trust, Sole Member of RACER Properties LLC

By: EPLET, LLC, acting solely in its representative capacity as Administrative Trustee of Revitalizing Auto Communities Environmental Response Trust

By: _____
ELLIOTT P. LAWS, not individually, but acting solely in his representative capacity as Managing Member of EPLET, LLC,

District of Columbia
~~STATE OF MICHIGAN~~
~~COUNTY~~ OF Washington City

The foregoing instrument was acknowledged before me this 21st day of August, 2014 by ELLIOTT P. LAWS, as Managing Member of EPLET, LLC, acting solely in its capacity as Administrative Trustee of Revitalizing Auto Communities Environmental Response Trust as Sole Member of RACER Properties LLC, a Delaware limited liability company, on behalf of the company.

MYUNG H. WANG NOTARY PUBLIC DISTRICT OF COLUMBIA MY COMMISSION EXPIRES 6/14/2019

_____
Notary Public Signature

Name of Notary Public Myung Wang
Notary Public, ~~State of~~ District of Columbia
~~County of~~ City of Washington
My Commission Expires: June 14, 2019
Acting in the County of N/A

This document is exempt from state and county transfer taxes pursuant MCL 207.505(a) and MCL 207.526(a).]

When recorded return to:
David Favero
RACER Trust, Deputy Cleanup Manager – Michigan
500 Woodward Avenue, Suite 1510
Detroit, Michigan 48226

EXHIBIT 1

LEGAL DESCRIPTION

Real property in the City of Pontiac, County of Oakland, State of Michigan, described as follows:

Parcel 25:
Lots 1, 2 and 4, and Part of Lots 5 and 11, Assessor's Plat No 110, as recorded in Liber 52, Page 26 of Plats, Oakland County Records, Also Part of Section 3, Town 2 North, Range 10 East, City of Pontiac, Oakland County, Michigan, described as: Beginning at a point distant North 87 degrees 23 minutes 00 seconds West, 1334.96 feet from the North 1/4 corner of said Section 3; thence South 02 degrees 36 minutes 20 seconds West, 2236.05 feet; thence along a curve to the left, radius 319.50 feet, chord bears South 19 degrees 50 minutes 14 seconds East, 243.95 feet, distance of 250.30 feet; thence South 42 degrees 16 minutes 49 seconds East, 511.12 feet; thence along a curve to the left, radius 358 feet, chore bears South 65 degrees 55 minutes 06 seconds East, 87.18 feet, distance of 87.40 feet; thence South 72 degrees 54 minutes 43 seconds East, 82.10 feet; thence along a curve to the right, radius 393 feet, chord bears South 54 degrees 06 minutes 50 seconds East, 252.20 feet, distance of 256.77 feet; thence South 35 degrees 22 minutes 57 seconds East, 5.04 feet; thence East 356.59 feet; thence North 45 degrees 00 minutes 00 seconds East, 52.32 feet; thence South 86 degrees 19 minutes 30 seconds East, 130.98 feet; thence South 45 degrees 00 minutes 00 seconds East, 40.45 feet; thence East 413.69 feet; thence South 04 degrees 42 minutes 41 seconds West, 141.05 feet; thence along a curve to the right, radius 700 feet, chord bears South 16 degrees 58 minutes 24 seconds West, 297.34 feet, distance of 299.62 feet; thence South 29 degrees 14 minutes 08 seconds West, 85.68 feet; thence along a curve to the left, radius 520 feet, chord bears South 07 degrees 58 minutes 11 seconds East, 628.86 feet, distance of 675.33 feet to the Northeasterly right of way line of Grand Trunk Western Railroad; thence North 45 degrees 10 minutes 30 seconds West, 993.14 feet; thence North 39 degrees 38 minutes 57 seconds West, 237.47 feet; thence along a curve to the right, radius 564.59 feet, chord bears North 27 degrees 37 minutes 20 seconds West, 235.29 feet, distance of 237.03 feet to the Southerly line of Lot 5 of said Subdivision; thence South 69 degrees 19 minutes 44 seconds West, 211.25 feet; thence North 45 degrees 17 minutes 26 seconds West, 1000 feet; thence North 47 degrees 03 minutes 06 seconds West, 813.17 feet to the most Westerly corner of said Lot 5; thence Northeasterly 84.99 feet to the most Southerly corner of Lot 1 of said Subdivision; thence Northwesterly 376.47 feet to the Southwest corner of said Lot 1; thence Northerly 1213.01 feet along the West line of Lots 1 and 2 to the Northwest corner of Lot 2; thence Easterly 392.45 feet to the Southwest corner of Lot 4; thence Northerly 431.26 feet to the North line of Section 3; thence South 87 degrees 23 minutes 00 seconds East to the Place of Beginning, except that part in South Boulevard.

Parcel 26:
Lot 3 of Assessor's Plat No. 110, recorded in Liber 52, Page 26 of Plats, Oakland County Records.

Parcel 27:
Part of Lot 2 of Assessor's Plat No 98, as recorded in Liber IB of Assessor's Plats, Page 98, Oakland County Records, described as: Beginning at a point distant South 01 degree 54 minutes 22 seconds West, 50.08 feet and North 84 degrees 47 minutes 29 seconds West, 49.75 feet from

the Northeast corner of Section 4; thence North 84 degrees 47 minutes 29 seconds West, 249.05 feet; thence South 03 degrees 31 minutes 21 seconds West, 248.07 feet; thence South 14 degrees 35 minutes 31 seconds West, 283.65 feet; thence South 87 degrees 51 minutes 14 seconds East, 300.03 feet; thence North 03 degrees 54 minutes 16 seconds East, 511.80 feet to the Place of Beginning. And, Part of Lot 2 of Assessor's Plat No 98, as recorded in Liber IB of Assessor's Plats, Page 98, Oakland County Records, described as: Beginning at a point distant North 89 degrees 08 minutes 11 seconds West, 374.57 feet and South 01 degree 04 minutes 03 seconds East, 31 feet and South 89 degrees 08 minutes 11 seconds East, 74.90 feet and South 00 degrees 49 minutes 20 seconds East, 263.76 feet and South 10 degrees 18 minutes 08 seconds West, 284.53 feet from the Northeast corner of Section 4; thence North 87 degrees 51 minutes 17 seconds East, 300.13 feet; thence North 00 degrees 23 minutes 29 seconds West, 511.94 feet; thence South 89 degrees 05 minutes 58 seconds East, 49.75 feet; thence South 00 degrees 25 minutes 10 seconds East, 576.32 feet; thence South 48 degrees 09 minutes 24 seconds West, 707.27 feet; thence North 38 degrees 09 minutes 50 seconds East, 179.80 feet; thence North 02 degrees 08 minutes 28 seconds West, 23.19 feet; thence North 38 degrees 09 minutes 50 seconds East, 85.75 feet; thence along a curve to the left, radius 441.83 feet, chord bears North 24 degrees 13 minutes 59 seconds East, 212.74 feet, distance of 214.85 feet to the Place of Beginning.

Parcel 29:
Lot 3 of Assessor's Plat No 98, as recorded in Liber IB of Assessor's Plats, Page 98, Oakland County Records, except the Southwesterly part thereof, measured 30.21 feet along the Northwesterly line and 102.11 feet along the Southeasterly line, also except that part in said parcel, described as: Beginning at the intersection of the Northeasterly line of Grand Trunk Western Railroad and the Northwesterly lot line; thence South 51 degrees 42 minutes 20 seconds East, 48.79 feet; thence along a curve concave Northwesterly, radius 1136.74 feet, chord bears North 39 degrees 30 minutes 16 seconds East, 53.18 feet, distance of 53.18 feet; thence North 38 degrees 09 minutes 50 seconds East, 83.64 feet to the Northwesterly lot line; thence South 58 degrees 16 minutes 05 seconds West, 145.56 feet to the Place of Beginning.

Parcel 30:
Part of Lots 4, 5, and 6 of Assessor's Plat No. 98, as recorded in Liber IB of Assessor's Plats, Page 98, Oakland County Records, described as follows: Beginning at a point on the East line of Section 4, located South 00 degrees 25 minutes 10 seconds East, 1525.37 feet from the Northeast corner of said Section 4, said point being the Northeasterly corner of Lot 4; thence South 73 degrees 16 minutes 54 seconds West, 114.3 feet; thence South 51 degrees 46 minutes 25 seconds East, 135 feet, more or less, to a point on the East line of Lot 6; thence North 00 degrees 25 minutes 10 seconds West, 119.83 feet to the Place of Beginning.

The above-described parcels are the same land as described in First American Title Insurance Company Commitment Number NCS-633987-MICH dated February 7, 2014.

EXHIBIT 2

DRAWING ILLUSTRATING DESCRIPTION OF PROPERTY

[Drawing on following page]

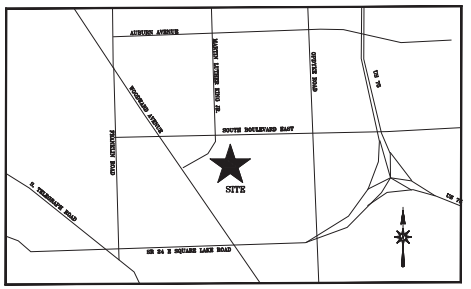
SURVEYED BEARING & DISTANCES

CURVE TABLE				
CURVE	LENGTH	RADIUS	CHORD	DIRECTION
C1	215.39	441.69	213.25	N59°18'58"E
C2	69.19	1183.71	69.69	N41°51'18"E
C3	297.40	824.69	295.69	S67°07'39"E
C4	619.88	888.69	606.83	S39°19'11"E
C5	397.32	756.69	392.74	N16°09'06"E
C6	4.89	888.69	4.89	N38°21'05"W
C7	299.34	388.69	292.39	N64°39'59"W
C8	97.49	388.69	97.18	S85°39'57"E
C9	389.39	976.69	386.85	S76°36'14"E
C10	215.39	441.69	213.25	N59°18'58"E

L# LINE LABEL NUMBER

C# CURVE LABEL NUMBER

LINE TABLE		
LINE	LENGTH	BEARING
L1	1048.38	N67°22'09"W
L2	19.89	N01°32'09"E
L3	288.88	N67°12'09"W
L4	248.13	S81°12'58"W
L5	289.88	S12°16'28"W
L6	66.76	S40°09'24"W
L7	28.19	S66°12'42"E
L8	259.57	S40°09'24"W
L9	742.66	S66°19'31"E
L10	4.08	S74°14'09"W
L11	916.91	S46°19'14"E
L12	88.80	S44°29'23"W
L13	913.17	S41°09'55"E
L14	1888.39	S46°17'39"E
L15	211.28	N66°19'41"E
L16	287.47	S38°39'52"E
L17	992.14	S46°12'28"E
L18	69.66	N66°14'09"E
L19	141.05	N64°42'41"E
L20	412.69	N40°09'09"W
L21	40.46	N40°09'09"W
L22	130.88	N66°19'09"W
L23	99.26	S40°09'09"E
L24	388.69	N66°09'09"W
L25	9.22	N39°25'57"W
L26	82.16	N72°54'43"W
L27	811.12	N46°14'09"W
L28	2178.82	N66°39'29"E



NOTE: NEW LEGAL AND PLAT ARE TO BE PROVIDED BY SURVEYOR. BEARING AND DISTANCES ARE BELIEVED TO BE ACCURATE, BUT ARE SUBJECT TO CHANGE WITH NEW BOUNDARY SURVEY.

N-1/4 CORNER SECTION 3 T2N-R10E CITY OF PONTIAC PROPERTY CONTROLING CORNER

SW CORNER SECTION 34 T3N-R10E CITY OF PONTIAC PROPERTY CONTROLING CORNER

EXISTING BUILDING 851,468 SQ. FT. PIN: 14-03-101-009 15-34-226-020 TOTAL AREA= 3,471,647 SQ. FT. 79.685 ACRES

BUILDING REMOVED AND CONCRETE BUILDING FOUNDATION REPAIRS

6. All of the terms and provisions set forth and contained in that certain Lease between Tower Asset Sub, Inc., a Delaware corporation, Lessor, and MetroPCS Michigan, Inc., a Delaware corporation, Lessee, recorded in Liber 39894, Page 288. DOES NOT PERTAIN TO SUBJECT PROPERTY

7. All of the terms and provisions set forth and contained in that certain Lease between William Winter, Lessor, and PowerFlex, Inc., d/b/a Hertz Construction, a Delaware corporation, a memorandum of which is recorded in Liber 19436, Page 930 and Memorandum of Assignment recorded in Liber 24042, Page 1202 and Liber 24043, Page 167. DOES NOT PERTAIN TO SUBJECT PROPERTY

8. All of the terms and provisions set forth and contained in that certain Lease between Center Point Funding, Limited Partnership, a Delaware limited partnership, Lessor, and General Motors Corporation, a Delaware general corp., Lessee, a memorandum of which is recorded in Liber 13198, Page 924. PERTAINS, BLANKET EASEMENT (LOT 9 OF ASSESSOR'S PLAT NO. 180)

9. All of the terms and provisions set forth and contained in that certain Lease between W. J. O'Neil, Executive Director, Community Services, of General Motors Corporation, a Delaware corporation, Lessor, and Douglas M. Stein, President of Centerpoint Holdings, Inc., a Michigan corporation, the General Partner of Centerpoint Associates, a Michigan limited partnership, Lessee, recorded in Liber 14888, Page 899 and Assignment to Affidavit Re: Lease of Real Estate recorded in Liber 15997, Page 909.

10. The terms, provisions and conditions contained in that certain Agreement Regarding Shared Utilities and Other Matters recorded September 27, 2011 in Liber 43414, Page 242. PERTAINS, BLANKET EASEMENT

11. Building and use restrictions and other terms covenants and conditions, but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status or national origin to the extent such covenants, conditions or restrictions violate 42 USC 3604 (c), disclosed by instrument recorded in Liber 43366, Page 702 and Liber 41625, Page 888. AS SHOWN

12. The terms, provisions and conditions contained in that certain Notice Regarding Statutory Obligations Applicable to Property recorded February 24, 2010 in Liber 41858, Page 488. PERTAINS, BLANKET EASEMENT

13. Building and use restrictions and other terms covenants and conditions, but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status or national origin to the extent such covenants, conditions or restrictions violate 42 USC 3604 (c), disclosed by instrument recorded in Liber 23291, Page 64 and Amended and Restated Declaration of Restrictive Covenant recorded in Liber 41297, Page 748. AS SHOWN

14. Grant of Easement for Sanitary Sewer and Water Main granted to the City of Pontiac, a municipal corporation disclosed by instrument recorded in Liber 35268, Page 697, Oakland County Records. AS SHOWN

15. The terms, provisions and conditions contained in that certain Notice Regarding Statutory Obligations Applicable to Property recorded November 28, 2006 in Liber 38888, Page 682. PERTAINS, BLANKET EASEMENT

16. Easement for Overhead and Underground Electric Wires granted to The Detroit Edison Company, a Michigan corporation disclosed by instrument recorded in Liber 16795, Page 136, Amendment to Easement for Overhead and Underground Electric Wires recorded in Liber 19560, Page 926. Second Amendment to Easement for Overhead and Underground Electric Wires recorded in Liber 32497, Page 429, Oakland County Records. AS SHOWN

17. The terms, provisions and conditions contained in that certain Easement Agreement recorded September 28, 1994 in Liber 9755, Page 265. PERTAINS, BLANKET EASEMENT

18. The terms, provisions and conditions contained in that certain Assignment, Conveyance and Assumption Agreement recorded October 6, 1999 in Liber 15974, Page 141. PERTAINS, BLANKET EASEMENT

19. Easement for Gas Pipelines granted to Consumers Power Company, a Michigan corporation disclosed by instrument recorded in Liber 10557, Page 704, Oakland County Records. DOES NOT PERTAIN TO SUBJECT PROPERTY

20. Roadway Easement granted to the City of Pontiac, a Michigan municipal corporation disclosed by instrument recorded in Liber 23297, Page 104, Oakland County Records. AS SHOWN

21. The terms, provisions and conditions contained in that certain Notice Regarding Statutory Obligations Applicable to Property recorded November 28, 2006 in Liber 38888, Page 682. PERTAINS, BLANKET EASEMENT

22. Easement for Overhead and Underground Electric Wires granted to The Detroit Edison Company, a Michigan corporation disclosed by instrument recorded in Liber 16795, Page 136, Amendment to Easement for Overhead and Underground Electric Wires recorded in Liber 19560, Page 926. Second Amendment to Easement for Overhead and Underground Electric Wires recorded in Liber 32497, Page 429, Oakland County Records. AS SHOWN

23. The terms, provisions and conditions contained in that certain Easement Agreement recorded September 28, 1994 in Liber 9755, Page 265. PERTAINS, BLANKET EASEMENT

24. The terms, provisions and conditions contained in that certain Assignment, Conveyance and Assumption Agreement recorded October 6, 1999 in Liber 15974, Page 141. PERTAINS, BLANKET EASEMENT

25. Easement for Gas Pipelines granted to Consumers Power Company, a Michigan corporation disclosed by instrument recorded in Liber 10557, Page 704, Oakland County Records. DOES NOT PERTAIN TO SUBJECT PROPERTY

26. Roadway Easement granted to the City of Pontiac, a Michigan municipal corporation disclosed by instrument recorded in Liber 23297, Page 104, Oakland County Records. AS SHOWN

27. Easement granted to the City of Pontiac, a municipal corporation disclosed by instrument recorded in Liber 4222, Page 944, Oakland County Records. AS SHOWN

28. Sewer Easement Agreement granted to the City of Pontiac, a Michigan municipal corporation, and its successors and assigns forever disclosed by instrument recorded in Liber 4258, Page 897, Oakland County Records DOES NOT PERTAIN, FOLLOWS CENTERLINE OF MARTIN LUTHER KING JR BLVD' S

29. Right of Way Agreement granted to The Detroit Edison Company disclosed by instrument recorded in Liber 3256, Page 62, Affidavit of Lost Civil Claim Deeds recorded in Liber 20559, Page 204 and Liber 20559, Page 709 and Civil Claim Deeds recorded in Liber 20567, Page 332 and Liber 20567, Page 333, Oakland County Records. AS SHOWN

30. Right of Way granted to The Detroit Edison Co. disclosed by instrument recorded in Liber 3 of Miscellaneous Record, Page 8, Affidavit of Lost Civil Claim Deeds recorded in Liber 20559, Page 204 and Liber 20559, Page 709 and Civil Claim Deeds recorded in Liber 20567, Page 332 and Liber 20567, Page 333, Oakland County Records. PERTAINS, BUT CAN NOT BE PLATTED

31. The terms, provisions and conditions contained in that certain Indemnity recorded in Liber 1574, Page 55, Liber 3434, Page 332, Liber 4222, Page 169, Liber 3255, Page 59 and Liber 19755, Page 112. AS SHOWN

32. The terms, provisions and conditions contained in that certain Agreement recorded July 19, 1976 in Liber 8301, Page 32. DOES NOT PERTAIN TO SUBJECT PROPERTY

LEGEND

- FOUND I.P.
- FOUND CROSS NOTCH
- FOUND BRASS CAP
- FOUND CONCRETE MONUMENT
- FOUND FENCE POST
- SET CROSS NOTCH
- FIRE HYDRANT
- P.I.V. CONNECTION
- CATCH BASIN
- MAN HOLE
- GAS VALVE
- MONITORING WELL
- UTILITY POLE
- LIGHT POLE
- FDC FIRE DEPARTMENT CONNECTION
- FO FIBER OPTIC
- X—X— FENCE LINE
- ——— EASEMENT LINE

GRAPHIC SCALE

0 100' 200' 300'

SCALE: 1" = 100'

ENCROACHMENT NOTES:

11.8' FENCE & ASPHALT ENCROACHMENT OVER PROPERTY LINE
35.2' FENCE & ASPHALT ENCROACHMENT OVER PROPERTY LINE
45.7' FENCE ENCROACHMENT OVER PROPERTY LINE
9.0' BUILDING ENCROACHMENT OVER SETBACK LINE

DRAWING NOTES:

1) ALL UTILITIES ARE SHOWN BY VISUAL INSPECTION OF THE SITE OR MARKINGS ON THE GROUND BY OTHERS.
2) BEARING CONTROL IS BASED ON DEEDS PROVIDED IN COMMITTMENT
3) LOCATIONS OF UTILITIES ARE SHOWN HEREON BY OBSERVED EVIDENCE AND APPEAR TO ENTER THE PROPERTY THROUGH EITHER THE PUBLIC RIGHTS OF WAY AND/OR THROUGH EXISTING EASEMENTS INCLUDING WATER, NATURAL GAS, ELECTRIC, SEWER SANITARY SEWER, AND TELECOMMUNICATIONS

ZONING

EXISTING BUILDINGS & PARKING LOTS
M-2 HEAVY INDUSTRIAL DISTRICT
FRONT SETBACK=15'
SIDE SETBACK= 15'
REAR SETBACK= 10'
BUILDING HEIGHT= 45'

FLOOD DATA

COMMUNITY PANEL NO. : 26125C0507F
ZONE: X
DSCD:
EFFECTIVE DATE: 09/26/2006

The undersigned hereby certifies, as of MAY 1, 2014 to
FIRST AMERICAN TITLE, NEW ERA, LLC
and its successors and assigns as follows:

a) I have surveyed, on the ground in accordance with the minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys as jointly established and adopted by the American Land Title Association and American Congress on Surveying & Mapping and National Society of Professional Surveyors, 2011 and this meets the requirements for an urban survey as defined therein, the property legally described hereof and that said legal description is correct, complete and accurate.

b) The boundaries of the property as depicted in the plat were established by actual field measurements and the pins, monuments or other markers were set or found as shown thereon.

c) To the best of my knowledge and in my professional opinion this plat of survey is true and correct in all respects.

d) The size, dimensions and locations of all of the boundaries of the property, buildings, structures, fences and party walls and other improvements, recorded and visible unrecorded easements, streams, signs, drainage ditches, roads, railroads, streams, means of public access, rights of way, utility lines and connections, and set-back lines which affect the property are correctly and accurately shown hereon.

e) All encroachments, overlaps or overhangs on easements, adjoining property, streets or alleys by any of said buildings, structures or other improvements, are as shown on the drawing. There are no encroachment, there are no overlaps or overhangs on said property by buildings, structures or other improvements situated on adjoining property except as shown.

f) This plat correctly shows (i) the courses and measured distances of the exterior property lines of the property and any easements located on or affecting the property; (ii) the scale, north direction, the beginning point and point of reference from which the property is measured, the width of the streets on which the said property abuts, the lot and block number shown on any map or plat to which reference is made in the legal description of the property, together with the recording references for said map or plat; (iii) the address of the property; (iv) the location and number of parking spaces and the total area of the property in acres and square feet and any easements located on or affecting the property; (v) the dimensions of all buildings on the property at ground surface level and the distance therefrom to the nearest facing exterior property lines; and (vi) names of adjoining owners of platted lands.

g) The propertylines shown as surveyed and described on the plat is contiguous along its entire boundaries and is not enclosed within the perimeters thereof.

h) The dimensions shown hereon are expressed in feet and decimal part thereof.

i) All bearings are related to an assumed meridian and are intended to indicate angles only.

j) All parcels are contiguous with each other and there are no gaps or gores between or among parcels.

k) A physical examination of the property reveals no apparent use of the property for pathways, driveways or roadways for which there are not recorded easements, nor for solid waste dump, sump, sanitary land fill, drilling, excavating, building, street or sidewalk construction or repairs, or any changes in street right-of-way lines, either completed or proposed, nor does it serve adjoining property for drainage, ingress, egress or any other purpose.

l) The property has direct access to a dedicated, complete and accepted public street maintained by governmental authority know as SOUTH BOULEVARD AND RING ROAD

m) The property does NOT lie within a flood plain.

n) There are no encroachments, no overlaps, gaps, easements, streets, roads, rights of way, set-back lines or improvements which affect the property which are not shown hereon.

o) A physical examination of the property does not reveal evidence of cemeteries.

p) There are no parking restrictions on said property. There are approximately 2,398 total striped parking spaces (15 handicapped) on said property.

q) The property is zoned M-2 HEAVY INDUSTRIAL DISTRICT

r) No portion of the property lies within a federally designated wetlands protection area as determined by the maps of the Army Corps of Engineers, nor within any designated flood hazard area as determined by the U.S. Department of Housing and Urban Development, the Federal Emergency Management Agency or other federal, state or local government entity.

s) No observable evidence of earth moving work, no building construction or building additions within recent months.

ALTA/ACSM LAND TITLE SURVEY

FIRST AMERICAN TITLE, NEW ERA, LLC
Commitment No. NCS-659267-MICH

I, the undersigned, being a duly licensed and qualified surveyor in and for the State of Michigan, do hereby certify to First American Title Insurance Company, its successors and assigns, as their interest may appear:

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2011 Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 6 (b), 7, 8, 9, 10 (where party walls are a factor), 13(b), 13, 14, 16, 17, 18,19 & 20 (if applicable) of Table A thereof. The field work was completed on April 8, 2014. Date of this amendment February 7, 2014.

STATE OF MICHIGAN — RAYMOND J. MCCOY — 21270 — LICENSED PROFESSIONAL SURVEYOR

RAYMOND J. McCOY 5/15/14

RAYMOND J. McCOY LICENSE #4001021270

State of Michigan
Date of survey: APRIL 8, 2014

PROPERTY DESCRIPTION

Real property in the City of Pontiac, County of Oakland, State of Michigan, described as follows:

Parcel 22:

Lots 1, 2 and 4, and Part of Lots 3 and 11, Assessor's Plat No 110, as recorded in Liber 62, Page 33 of Plats, Oakland County Records, Also Part of Section 3, Town 3 North, Range 10 East, City of Pontiac, Oakland County, Michigan, described as: Beginning at a point distant North 67 degrees 22 minutes 09 seconds West, 1,048.38 feet from the North 1/4 corner of said Section 3; thence South 01 degrees 32 minutes 09 seconds West, 2,020.48 feet; thence along a curve to the left, radius 2162.29 feet, chord bears South 10 degrees 58 minutes 14 seconds East, 1,000.00 feet; thence South 24 degrees 28 minutes 37 seconds East, 1,000.00 feet; thence South 67 degrees 12 minutes 09 seconds West, 288.88 feet; thence South 40 degrees 09 minutes 24 seconds West, 841.12 feet; thence along a curve to the left, radius 888.69 feet, chord bears South 66 degrees 39 minutes 59 seconds East, 97.18 feet, distance of 97.49 feet; thence South 72 degrees 54 minutes 43 seconds East, 82.16 feet; thence along a curve to the right, radius 388.69 feet, chord bears South 64 degrees 39 minutes 59 seconds East, 386.85 feet, distance of 389.39 feet; thence South 56 degrees 24 minutes 37 seconds East, 1,000.00 feet; thence South 33 degrees 35 minutes 23 seconds West, 1,000.00 feet; thence South 56 degrees 24 minutes 37 seconds East, 9.22 feet; thence North 39 degrees 25 minutes 57 seconds West, 2,178.82 feet; thence North 66 degrees 39 minutes 29 seconds East, 1,888.39 feet; thence South 46 degrees 17 minutes 39 seconds East, 211.28 feet; thence South 38 degrees 39 minutes 52 seconds East, 287.47 feet; thence South 46 degrees 12 minutes 28 seconds East, 992.14 feet; thence North 66 degrees 19 minutes 41 seconds West, 69.66 feet; thence along a curve to the right, radius 2834.89 feet, chord bears North 57 degrees 57 minutes 39 seconds West, 555.32 feet, distance of 557.20 feet to the Southerly line of Lot 5 of said Subdivision; thence South 46 degrees 18 minutes 44 seconds West, 211.30 feet; thence North 43 degrees 17 minutes 55 seconds West, 1,999 feet; thence North 47 degrees 09 minutes 09 seconds West, 913.17 feet to the most Westerly corner of said Lot 5; thence Northeasterly 54.89 feet to the most Southerly corner of Lot 1 of said Subdivision; thence North 40 degrees 09 minutes 09 seconds East, 576.47 feet to the Southeast corner of said Lot 1; thence Northerly 570.65 feet along the West line of Lots 1 and 2 to the Northeast corner of Lot 2; thence Easterly 288.88 feet to the Southwest corner of Lot 4; thence Northerly 481.38 feet to the North line of Section 3; thence South 67 degrees 59 minutes 09 seconds East to the Place of Beginning, except that part in South Boulevard.

Parcel 23:

Lot 3 of Assessor's Plat No. 110, recorded in Liber 62, Page 33 of Plats, Oakland County Records.

Parcel 27:

Part of Lot 2 of Assessor's Plat No 88, as recorded in Liber 62 of Assessor's Plats, Page 28, Oakland County Records, described as: Beginning at a point distant South 01 degree 34 minutes 32 seconds West, 20.00 feet and North 84 degrees 47 minutes 28 seconds West, 49.70 feet from the Northeast corner of Section 4; thence North 84 degrees 47 minutes 28 seconds West, 349.66 feet; thence South 01 degrees 31 minutes 31 seconds West, 310.27 feet; thence South 14 degrees 39 minutes 31 seconds West, 259.41 feet; thence South 57 degrees 01 minutes 14 seconds East, 288.00 feet; thence North 66 degrees 04 minutes 19 seconds East, 211.28 feet to the Place of Beginning.

Also, Part of Lot 2 of Assessor's Plat No 88, as recorded in Liber 62 of Assessor's Plats, Page 28, Oakland County Records, described as: Beginning at a point distant North 66 degrees 04 minutes 19 seconds West, 374.57 feet and South 01 degree 04 minutes 00 seconds East, 21 feet and South 88 degrees 56 minutes 01 seconds East, 74.50 feet and South 49 degrees 40 minutes 00 seconds East, 233.76 feet and South 12 degrees 19 minutes 00 seconds West, 254.00 feet from the Northeast corner of Section 4; thence North 87 degrees 01 minutes 12 seconds West, 288.10 feet; thence North 46 degrees 29 minutes 29 seconds West, 591.94 feet; thence South 39 degrees 55 minutes 32 seconds East, 45.71 feet; thence South 69 degrees 39 minutes 19 seconds East, 515.35 feet; thence North 49 degrees 40 minutes 00 seconds West, 707.37 feet; thence South 39 degrees 55 minutes 32 seconds East, 170.00 feet; thence North 50 degrees 04 minutes 28 seconds West, 35.19 feet; thence North 39 degrees 55 minutes 32 seconds East, 69.70 feet; thence along a curve to the left, radius 441.69 feet, chord bears North 24 degrees 13 minutes 59 seconds East, 215.74 feet, distance of 214.53 feet to the Place of Beginning.

Parcel 28:

Lot 3 of Assessor's Plat No 88, as recorded in Liber 62 of Assessor's Plats, Page 28, Oakland County Records, except the Southwesterly part thereof, commencing 20.31 feet along the Northerly line and 466.11 feet along the Northeasterly line of Grand Trunk Western Railroad and the Northeasterly lot line, thence South 01 degree 42 minutes 00 seconds West, 49.70 feet; thence along a curve to the right, radius 1183.71 feet, chord bears North 59 degrees 50 minutes 10 seconds East, 69.19 feet, distance of 69.19 feet; thence North 58 degrees 09 minutes 00 seconds East, 426.00 feet to the Northeasterly lot line; thence South 39 degrees 55 minutes 32 seconds East, 145.00 feet to the Place of Beginning.

Parcel 29:

Part of Lots 4, 5, and 8 of Assessor's Plat No. 88, as recorded in Liber 62 of Assessor's Plats, Page 28, Oakland County Records, described as follows: Beginning at a point on the East line of Section 4, located South 39 degrees 55 minutes 19 seconds East, 1,975.37 feet from the Northeast corner of said Section 4, said point being the Northeasterly corner of Lot 4; thence South 79 degrees 16 minutes 34 seconds West, 114.3 feet; thence South 01 degrees 42 minutes 00 seconds East, 130 feet, more or less, to a point on the East line of Lot 8; thence North 58 degrees 39 minutes 19 seconds West, 116.00 feet to the Place of Beginning.

The above-described parcels are the same land as described in First American Title Insurance Company Commitment Number NCS-659267-MICH dated February 7, 2014.

LEESMAN ENGINEERING & ASSOC.
ENGINEERING, SURVEYING, PLANNING
EMAIL@LEESMANENGINEERING.COM
2750 TOPIC HILLS, CINCINNATI, OHIO 45248 513/417-0459

DRAWING DATA	REVISION DATES
SCALE:1"=100'	
DRAWN BY:TMO	
CHECKED BY: RJM	
WORK No.: NCS-659267-MICH	

SHEET 1 OF 1

EXHIBIT 3

DESCRIPTION OF ALLOWABLE USES

Non-residential Land Use: This land use is characterized by any use which is not residential in nature and is primarily characterized by industrial and commercial uses. Industrial uses typically involve manufacturing operations engaged in processing and manufacturing of materials or products. Other examples of industrial uses are utility companies, industrial research and development, and petroleum bulk storage. Commercial uses include any business or income-producing use such as commercial warehouses, lumber yards, retail gas stations, auto dealerships and service stations, as well as office buildings, banks, and medical/dental offices (not including hospitals). Commercial uses also include retail businesses whose principal activity is the sale of food or merchandise within an enclosed building and personal service establishments which perform services indoors such as health clubs, barber/beauty salons, photographic studios, etc.

Any residential use is specifically prohibited from the non-residential land use category. This would include the primary use of the property for human habitation and includes structures such as single family dwellings, multiple family structures, mobile homes, condominiums, and apartment buildings. Residential use is also characterized by any use which is intended to house, educate, or provide care for children, the elderly, the infirm, or other sensitive populations, and therefore could include day care centers, educational facilities, hospitals, elder care facilities, and nursing homes. The use of any accessory building or portion of an existing building as a dwelling unit permitted for a proprietor or storekeeper and their families, located in the same building as their place of occupation, or for a watchman or caretaker is also prohibited. Any authority that allows for residential use of the Property as a legal non-conforming use is also restricted per the prohibitions contained in this restrictive covenant.

EXHIBIT 4

LEGAL DESCRIPTION AND DRAWING ILLUSTRATING DESCRIPTION OF VAPOR INTRUSION RESTRICTION AREAS

AOI 50 DUCO STRORES VAPOR INTRUSION RESTRICITON AREA (EXHIBIT 4 FIGURE 1)

A Parcel of land situated in the Northwest 1/4 of Section 3, Town 2 South, Range 10 East, City of Pontiac, Oakland County, Michigan, being part of Lots 1 & 5, "Assessor's Plat No. 110", as recorded in Liber 52 of Plats, page 26 of Oakland County records, more particularly described as: commencing at the Northwest property-controlling corner of said Section 3 (said point being N 87°23'33" W, 2483.50 feet (measured) from the North 1/4 property-controlling corner of said section 3): thence S 87°23"00" E, 1049.50 feet; thence S 02°36'20" W, 60.00 feet to the intersection of the Southerly right-of-way line of South Blvd. and the Westerly right-of-way line of Ring Road (50 feet wide); thence S 02°36'20" W, 1271.62 feet; thence leaving said right-of-way line, N 87°19'58" W, 170.97 feet to the Point of Beginning; thence S 02°40'02" W, 375.81 feet; thence N 87°19'58" W, 415.15 feet; thence N 02°40'02" E, 375.81 feet; thence S 87°19'58" E, 415.15 to the Point of Beginning. Containing 3.58 acres more or less.

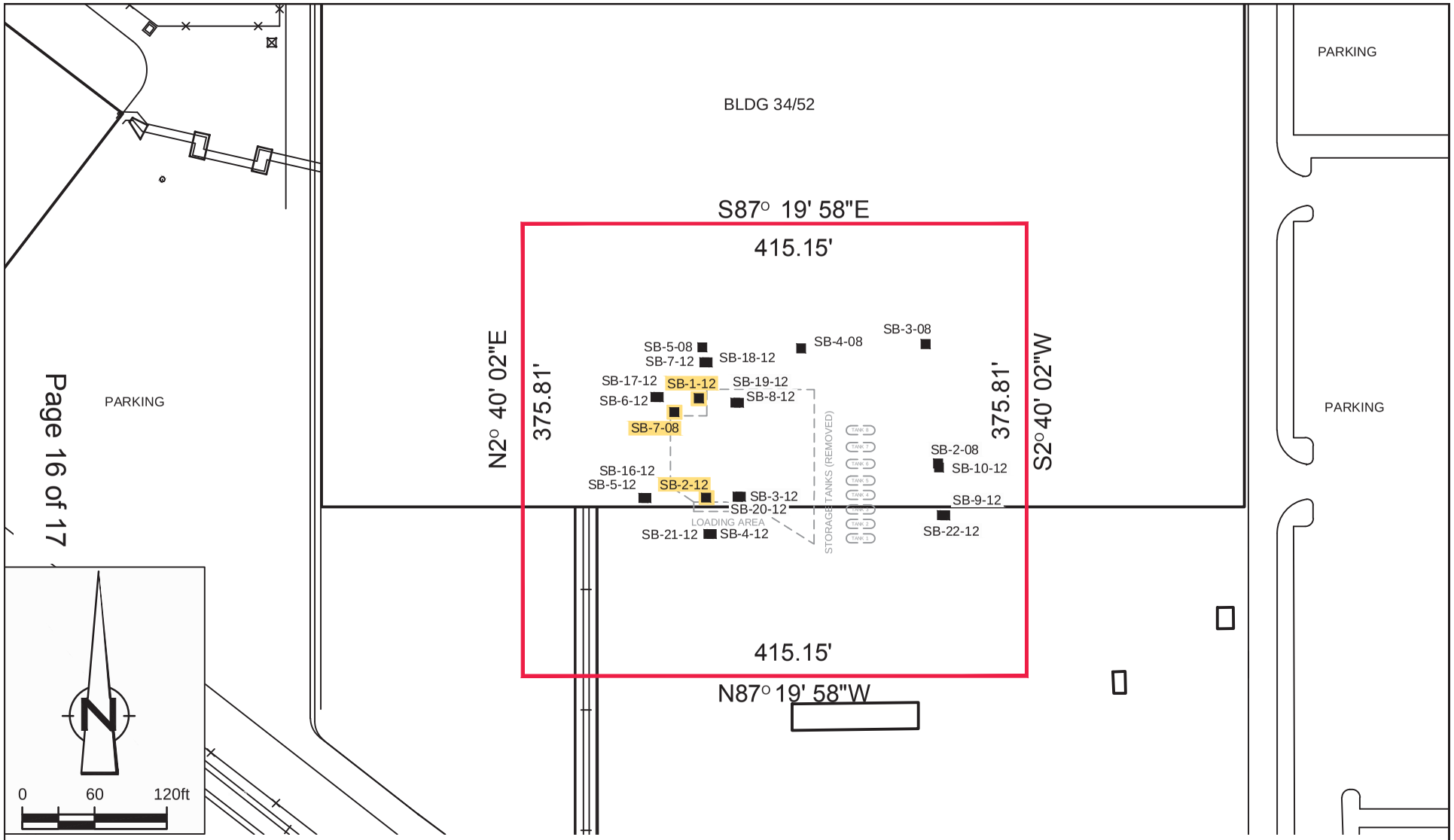
pt 19-03-101-003

AOI 53 – BUILDING 33 VAPOR INTRUSION RESTRICTION AREA (EXHIBIT 4 FIGURE 2)

A Parcel of land situated in the Northwest 1/4 of Section 3, Town 2 South, Range 10 East, City of Pontiac, Oakland County, Michigan, being part of Lots 1 & 5, "Assessor's Plat No. 110", as recorded in Liber 52 of Plats, page 26 of Oakland County records, more particularly described as: commencing at the Northwest property-controlling corner of said Section 3 (said point being N 87°23'33" W, 2483.50 feet (measured) from the North 1/4 property-controlling corner of said Section 3): thence S 87°23"00" E, 1049.50 feet; thence S 02°36'20" W, 60.00 feet to the intersection of the Southerly right-of-way line of South Blvd. And the Westerly right-of-way line of Ring Road (50 feet wide) to the Point of Beginning; thence continuing along said Westerly right-of-way line S 02°36'20" W, 646.73 feet; thence N 87°23'00" W, 665.89 feet; thence N 02°36'19" E, 646.73 feet to the Southerly right-of-way line of South Blvd; thence along said Southerly right-of-way line S 87°23"00" E, 665.89 feet to the Point of Beginning. Containing 9.88 acres more or less

pt 19-03-101-003

DRAWING ILLUSTRATING DESCRIPTION OF VAPOR INTRUSION RESTRICTION AREA



LEGEND

- APPROXIMATE AREA OF RESTRICTIVE COVENANT FOR VAPOR INTRUSION
- SOIL BORING LOCATION
- SOIL BORING WITH VOCs DETECTED ABOVE PART 201 NON-RESIDENTIAL SOIL VOLATILIZATION TO INDOOR AIR INHALATION CRITERIA

NOTE: RESTRICTIVE COVENANT AREA WAS DERIVED BASED ON A MINIMUM DISTANCE OF 100 ft. FROM DELINEATION SOIL BORINGS WITH NO NON-RESIDENTIAL VAPOR INTRUSION EXCEEDANCES AND 100 ft. FROM FORMER USTs.

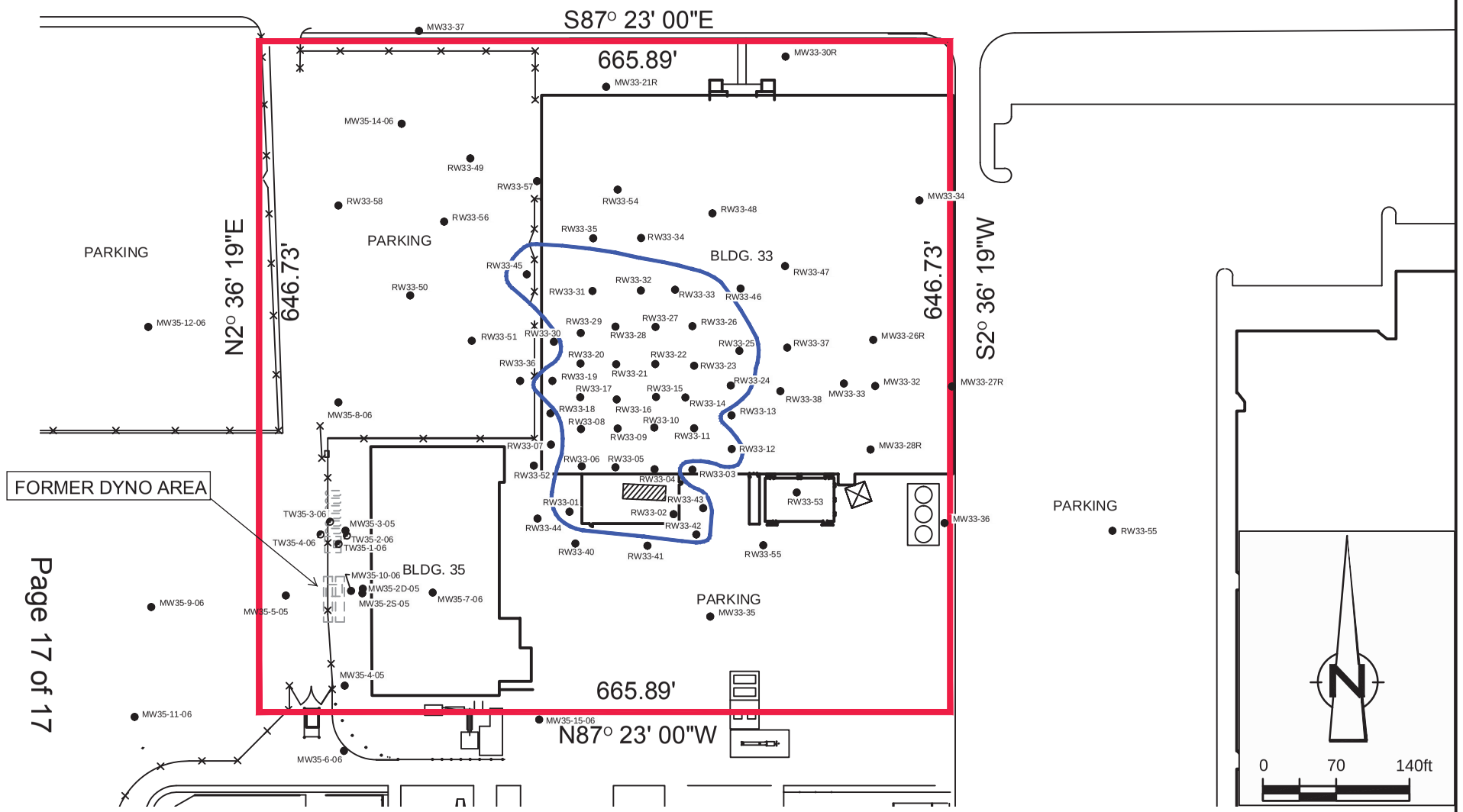
- AS PER SECTION 3.2.3 OF THE MDEQ GUIDANCE DOCUMENT FOR THE VAPOR INTRUSION PATHWAY (MAY, 2013), A 100 ft. RADIUS FROM VAPOR SOURCES IS DEFINED AS THE PRELIMINARY SCREENING AREA. AND IS THEREFORE CONSIDERED A CONSERVATIVE DISTANCE FROM DELINEATION BORINGS TO ESTABLISH THE EDGE OF THE VAPOR INTRUSION RESTRICTION AREA.

EXHIBIT 4 - FIGURE 1

AOI-50 - DUCO STORES
VAPOR INTRUSION RESTRICTION AREA
PCC-WEST
PONTIAC, MICHIGAN

07097-T10(PRES017)GN-DE001 FEB 25/2014

DRAWING ILLUSTRATING DESCRIPTION OF VAPOR INTRUSION RESTRICTION AREA



LEGEND

APPROXIMATE AREA OF RESTRICTIVE COVENANT FOR VAPOR INTRUSION

RW33-55 EXISTING EXTRACTION/MONITORING WELL LOCATION

2004-2008 LIMIT OF IN WELL FREE PRODUCT OBSERVATIONS (FROM JAN. 13, 2010 POST-CORRECTIVE MEASURES EVALUATION REPORT FOR AOI 53 - FORMER BUILDING 33, LNAPL AREA 1)

NOTE: RESTRICTED AREA WAS DERIVED BASED ON A MINIMUM DISTANCE OF 100ft. FROM LNAPL AREA AND EXTENDING BEYOND THE FORMER DYNO TANK AREA. NO SOIL OR GROUNDWATER SAMPLE OUTSIDE THE LNAPL AREA EXCEED PART 201 NON-RESIDENTIA VAPOR INTRUSION CRITERIA.

AS PER SECTION 3.2.3 OF THE MDEQ GUIDANCE DOCUMENT FOR THE VAPOR INTRUSION PATHWAY (MAY, 2013), A 100 ft. RADIUS FROM VAPOR SOURCES IS DEFINED AS THE PRELIMINARY SCREENING AREA. AND IS THEREFORE CONSIDERED A CONSERVATIVE DISTANCE FROM DELINEATION BORINGS TO ESTABLISH THE EDGE OF THE VAPOR INTRUSION RESTRICTION AREA.

EXHIBIT 4 - FIGURE 2

AOI-53 - BUILDING 33
VAPOR INTRUSION RESTRICTION AREA
PONTIAC, MICHIGAN

07097-T10(PRES017)GN-DE002 FEB 25/2014

ARCADIS

Appendix AA

Strategy Memo for LNAPL Impacts at Storm Sewer Outfalls 002, 003, 004, and 005.
(UNDER DEVELOPMENT)

Appendix BB

GSI Pathway Exceedances Strategy Memo

(UNDER DEVELOPMENT)

Appendix CC

Recommended Remedy Cost Backup

Table CC-1 **Outfall 004 Infiltration Elimination Cost Estimate**
RACER Trust, Buick City Site, Flint, Michigan

RACER Task Number and Description:	Outfall 004 Sewer work and Bulkheading	
	Design	Outfall 004 Reroute and Bulkheading
	Cost	Cost
Consultant Labor [2]:		
Principal	$1,430.00	$1,430.00
Sr. Engineer/Scientist II	$2,358.00	$2,358.00
Sr. Engineer/Scientist I	$5,952.00	$4,216.00
Sr. Project Engineer/Scientist II	$2,592.00	$0.00
Sr. Project Engineer/Scientist I	$8,624.00	$14,700.00
Project Engineer/Scientist	$0.00	$0.00
Engineer/Scientist	$10,804.00	$0.00
Sr. Construction Resident	$0.00	$0.00
Technician IV	$0.00	$0.00
Technician III	$0.00	$0.00
Construction Resident	$0.00	$35,880.00
Technician II	$0.00	$0.00
Technician I	$0.00	$0.00
Sr. Drafter	$345.00	$0.00
Drafter	$1,060.00	$0.00
Document Technician	$1,140.00	$1,140.00
Consultant Labor Subtotal:	**$34,305.00**	**$59,724.00**
Consultant Direct Costs:		
Shipping	$0.00	$0.00
Vehicle Rental	$0.00	$3,500.00
Travel Costs, incl. meals	$0.00	$0.00
Rental Equipment	$0.00	$1,000.00
Disposable Supplies	$0.00	$1,000.00
Phone	$0.00	$200.00
Document Reproduction	$200.00	$200.00
Equipment	$0.00	$0.00
Clean Fill	$0.00	$0.00
Materials (Pilot Testing Additives)	$0.00	$0.00
Energy (Pilot Testing)	$0.00	$0.00
Utilities	$0.00	$0.00
Consultant Direct Costs Subtotal:	**$200.00**	**$5,900.00**
Consultant Indirect Costs Subtotal:	**$0.00**	**$480,500.00**
Task Subtotal:	**$34,505.00**	**$546,124.00**
Task Total [1]:	**$581,000.00**	

Notes:

1. Time and Materials-not to exceed without further change order follow-up.

2. Identified classifications are intended as examples and actual hours and classifications used could vary depending on availability.

3. Consultant Indirect Costs include costs such as laboratory, waste disposal, drillers, surveyors and construction subcontractors. Estimated costs are based on previous work completed at the Site and are for budgetary purposes. ARCADIS makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual costs. The Client understands that ARCADIS has no control over costs; the price of labor, equipment, or materials; or the construction contractor's methods of pricing. Final cost will be based on subcontractor quote and subject to Cleanup Manger approval and mark-up.

4. Assumes that the flow at manhole 4-21-1 can be rerouted via a new 24 inch diameter pipe to the Manhole 13 vault. And that the Current Outfall 004 main can be cut and bulkheaded in the vault without additional infrastructure.

5. The cement-bentonite wall is assumed to be 60 feet in length to a depth of 15 feet below ground surface.

6. This field aspect of this work is expected to take 8 weeks to complete working 5 (12 hour) days per week with a remobilization of 2 days upon curing of the concrete.

7. These costs assume that the bulkheading will be completed in the same manner as previous bulkheading work at this site and sewers are in such a condition to allow bulkheading.

8. Volume assumes a 25% swell factor and a 1.5 tons to cubic yard ratio.

9. Laboratory costs include on waste characterization sample.

10. Disposal costs assume Non-Hazardous Non-PCB material (1,000 tons).

Table CC-2

Outfall 003 Infiltration Elimination Cost Estimate
RACER Trust, Buick City Site, Flint, Michigan

RACER Task Number and Description:	**1** **Installation of New Main (1,200 feet)**	
	Reroute and Bulkheading Design	**Reroute and Bulkheading**
	Cost	**Cost**
Consultant Labor [2]:		
Principal	$7,300.00	$5,840.00
Sr. Engineer/Scientist II	$13,400.00	$13,400.00
Sr. Engineer/Scientist I	$30,240.00	$10,080.00
Sr. Project Engineer/Scientist II	$26,400.00	$22,000.00
Sr. Project Engineer/Scientist I	$40,000.00	$0.00
Project Engineer/Scientist	$36,400.00	$27,300.00
Engineer/Scientist	$22,200.00	$0.00
Sr. Construction Resident	$0.00	$0.00
Technician IV	$0.00	$0.00
Technician III	$6,080.00	$45,600.00
Construction Resident	$0.00	$0.00
Technician II	$0.00	$0.00
Technician I	$0.00	$0.00
Sr. Drafter	$11,200.00	$1,400.00
Drafter	$4,320.00	$3,240.00
Document Technician	$4,640.00	$1,160.00
Consultant Labor Subtotal:	**$202,180.00**	**$130,020.00**
Consultant Direct Costs:		
Shipping	$0.00	$0.00
Vehicle Rental	$500.00	$5,000.00
Travel Costs, incl. meals	$0.00	$0.00
Rental Equipment	$0.00	$0.00
Disposable Supplies	$200.00	$1,000.00
Phone	$0.00	$150.00
Document Reproduction	$500.00	$500.00
Equipment	$0.00	$0.00
Clean Fill	$0.00	$0.00
Materials (Pilot Testing Additives)	$0.00	$0.00
Energy (Pilot Testing)	$0.00	$0.00
Utilities	$0.00	$0.00
Consultant Direct Costs Subtotal:	**$1,200.00**	**$6,650.00**
Consultant Indirect Costs Subtotal:	**$15,914.00**	**$3,653,488.00**
Task Subtotal:	**$219,294.00**	**$3,790,158.00**
Task Total [1]:	**$4,010,000.00**	

Notes:

1. Time and Materials-not to exceed without further change order follow-up.

2. Identified classifications are intended as examples and actual hours and classifications used could vary depending on availability.

3. Consultant Indirect Costs include costs such as laboratory, waste disposal, drillers, surveyors and construction subcontractors. Estimated costs are based on previous work completed at the Site and are for budgetary purposes. ARCADIS makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual costs. The Client understands that ARCADIS has no control over costs; the price of labor, equipment, or materials; or the construction contractor's methods of pricing. Final cost will be based on subcontractor quote and subject to Cleanup Manger approval and mark-up.

4. Disposal costs assume that the material in the vicinity of AOI 05, 20% of total removal volume, will require TSCA disposal (5,088 tons). All other waste is anticipated to be non-hazardous with no PCB detections (20,352 tons).

5. This cost estimate includes installing two 48 inch diameter piping with a geomembrane-lined trench along a realigned path (~1,200 feet) and connecting back into the existing trunk line up and downstream of the more significantly impacted areas of the site. Corrugated, smooth-bore HDPE piping with gasket connections is assumed to be used. Running two pipes in parallel means the points of connection with the existing trunk line will likely need to be accomplished with custom fabricated precast concrete vaults.

6. The field aspect of this project is expected to take 10 weeks to complete working 5 (12 hour) days per week.

7. Assumes a removal rate of 540 tons per day. Activities will occur concurrently (excavation, pipe installation, backfilling, etc.)

8. Assumes that 1 full waste characteristic sample will be collected ever 100 feet.

9. Volume assumes a 25% swell factor and a 1.5 tons to cubic yard ratio.

10. Assumes surveyors will be onsite 1 day per week to provide control points.

11. Assumes the excavation will be completed without additional support of any adjacent utilities.

12. Assumes stepouts will be completed based on unit rates provided.

13. Does not include delays associated with the large obstructions (i.e. concrete walls, footings, large boulders) encountered during excavation activities.

Table CC-3 **AOI 05-1/05-5 Targeted Excavation - PCB and Lead Containing Soils**
RACER Trust, Buick City Site, Flint, Michigan

RACER Task Number and Description:	AOI 05-1/05-5 TSCA PCB Excavation Design	AOI 05-1/05-5 TSCA PCB Excavation
	Cost	Cost
Consultant Labor [2]:		
Principal	$584.00	$1,168.00
Sr. Engineer/Scientist II	$3,216.00	$2,144.00
Sr. Engineer/Scientist I	$5,040.00	$3,024.00
Sr. Project Engineer/Scientist II	$13,200.00	$6,600.00
Sr. Project Engineer/Scientist I	$20,000.00	$0.00
Project Engineer/Scientist	$0.00	$18,200.00
Engineer/Scientist	$0.00	$0.00
Sr. Construction Resident	$0.00	$0.00
Technician IV	$0.00	$0.00
Technician III	$0.00	$0.00
Construction Resident	$0.00	$42,840.00
Technician II	$0.00	$0.00
Technician I	$0.00	$0.00
Sr. Drafter	$560.00	$0.00
Drafter	$1,080.00	$864.00
Document Technician	$2,320.00	$1,160.00
Consultant Labor Subtotal:	**$46,000.00**	**$76,000.00**
Consultant Direct Costs:		
Shipping	$0.00	$0.00
Vehicle Rental	$0.00	$1,000.00
Travel Costs, incl. meals	$0.00	$0.00
Rental Equipment	$0.00	$400.00
Disposable Supplies	$0.00	$300.00
Phone	$0.00	$50.00
Document Reproduction	$20.00	$20.00
Equipment	$0.00	$0.00
Clean Fill	$0.00	$0.00
Materials (Pilot Testing Additives)	$0.00	$0.00
Energy (Pilot Testing)	$0.00	$0.00
Utilities	$0.00	$0.00
Consultant Direct Costs Subtotal:	**$20.00**	**$1,770.00**
Consultant Indirect Costs Subtotal:	**$0.00**	**$1,742,190.00**
Task Subtotal:	**$46,020.00**	**$1,819,960.00**
Task Total [1]:	**$1,866,000.00**	

Notes:

1. Time and Materials-not to exceed without further change order follow-up.

2. Identified classifications are intended as examples and actual hours and classifications used could vary depending on availability.

3. Consultant Indirect Costs include costs such as laboratory, waste disposal, drillers, surveyors and construction subcontractors. Estimated costs are based on previous work completed at the Site and are for budgetary purposes. ARCADIS makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual costs. The Client understands that ARCADIS has no control over costs; the price of labor, equipment, or materials; or the construction contractor's methods of pricing. Final cost will be based on subcontractor quote and subject to Cleanup Manger approval and mark-up.

4. Laboratory costs assume 10 waste confirmation samples.

5. Volume assumes a 25% swell factor and a 1.5 tons to cubic yard ratio.

6. The field aspect of this project is expected to take 48 days (12 hours per day) to complete. Includes 1 day of surveying and utility clearance.

7. Arcades Labor includes development of a work plan, bid development and solicitation, management of the subcontractor, sampling, and manifesting of wastes.

8. Assumes ARCADIS Technician will recover LNAPL from wells prior to excavation for up to an additional 3 days to decrease product encountered during excavation. It is anticipated that DH 3 and AOI 5-5 will require TSCA disposal, all others will be non-TSCA PCB. Assumes generation of 2 drums of product per day.

9. The excavation is assumed to be completed to a depth of 10 ft. bgs. and does not include excavation below the groundwater table (no dewatering/water management). A 1:1 sidewall sloping will be completed to ensure excavation safety.

10. Assumes the excavation will be completed without additional support of any adjacent utilities.

11. Assumes stepouts will be completed based on unit rates provided.

12. Assumes 540 tons will be trucked offsite per day.

13. Excavated material below 6' are assumed to require solidification at all excavations. Solidified material will be able to be disposed of as a solid at "As Found" concentrations. This estimate assumes that this material at DH-3 and AOI 5-5 will be disposed as TSCA solids (764 tons), While the remaining material is anticipated to be characterized as Non-TSCA PCB (11,962 tons).

14. Does not include delays associated with the large obstructions (i.e. concrete walls, footings, large boulders) encountered during excavation activities.

15. No costs for LNAPL removal from the excavation are included in this estimate.

Table CC-4

AOI 05-1/05-5 Targeted Excavation - Manganese Containing Soils
RACER Trust, Buick City Site, Flint, Michigan

RACER Task Number and Description:	AOI-05-1/05-5 Non-Haz Manganese Excavation Design	AOI-05-1/05-5 Non-Haz Manganese Excavation
	Cost	Cost
Consultant Labor [2]:		
Principal	$572.00	$286.00
Sr. Engineer/Scientist II	$1,048.00	$786.00
Sr. Engineer/Scientist I	$992.00	$1,240.00
Sr. Project Engineer/Scientist II	$2,592.00	$1,728.00
Sr. Project Engineer/Scientist I	$0.00	$0.00
Project Engineer/Scientist	$3,560.00	$3,560.00
Engineer/Scientist	$0.00	$0.00
Sr. Construction Resident	$0.00	$0.00
Technician IV	$0.00	$0.00
Technician III	$0.00	$0.00
Construction Resident	$0.00	$4,140.00
Technician II	$0.00	$0.00
Technician I	$0.00	$0.00
Sr. Drafter	$0.00	$0.00
Drafter	$212.00	$212.00
Document Technician	$570.00	$570.00
Consultant Labor Subtotal:	**$9,546.00**	**$12,522.00**
Consultant Direct Costs:		
Shipping	$0.00	$0.00
Vehicle Rental	$0.00	$1,000.00
Travel Costs, incl. meals	$0.00	$0.00
Rental Equipment	$0.00	$400.00
Disposable Supplies	$0.00	$300.00
Phone	$0.00	$50.00
Document Reproduction	$20.00	$20.00
Equipment	$0.00	$0.00
Clean Fill	$0.00	$0.00
Materials (Pilot Testing Additives)	$0.00	$0.00
Energy (Pilot Testing)	$0.00	$0.00
Utilities	$0.00	$0.00
Consultant Direct Costs Subtotal:	**$20.00**	**$1,770.00**
Consultant Indirect Costs Subtotal:	**$0.00**	**$41,003.26**
Task Subtotal:	**$9,566.00**	**$55,295.26**
Task Total [1]:	**$64,900.00**	

Notes:

1. Time and Materials-not to exceed without further change order follow-up.

2. Identified classifications are intended as examples and actual hours and classifications used could vary depending on availability.

3. Consultant Indirect Costs include costs such as laboratory, waste disposal, drillers, surveyors and construction subcontractors. Estimated costs are based on previous work completed at the Site and are for budgetary purposes. ARCADIS makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual costs. The Client understands that ARCADIS has no control over costs; the price of labor, equipment, or materials; or the construction contractor's methods of pricing. Final cost will be based on subcontractor quote and subject to Cleanup Manger approval and mark-up.

4. Laboratory costs assume 7 confirmation samples (1 day turn, 12.5' grid, includes 10% failure rate).

5. Volume assumes a 25% swell factor and a 1.5 tons to cubic yard ratio.

6. The field aspect of this project is expected to take 5 days (12 hours per day) to complete. Surveying work will be completed during this time.

7. Arcades Labor includes development of a work plan, bid development and solicitation, management of the subcontractor, sampling, and manifesting of wastes.

9. Assumes AOI-05-1/05-5 excavation will be completed to a depth of 6 ft. bgs.

10. Costs do not include excavation below the groundwater table (no dewatering/water management).

11. Assumes the excavation will be completed without additional support of any adjacent utilities.

12. Assumes stepouts will be completed based on unit rates provided.

13. Assumes 540 tons will be trucked offsite per day.

14. Assumes excavations can be safely completed with a 1:1 Slope.

15. Assumes excavated material will not require solidification and will be disposed as Non-Haz Manganese solid waste (302 tons).

16. Does not include delays associated with the large obstructions (i.e. concrete walls, footings, large boulders) encountered during excavation activities.

Table CC-5

AOI 10-1/10-4 Targeted Excavation Cost Estimate
RACER Trust, Buick City Site, Flint, Michigan

RACER Task Number and Description:	AOI-10 TSCA PCB Excavation Design	AOI-10 TSCA PCB Excavation - 10 Feet Deep
	Cost	Cost
Consultant Labor [2]:		
Principal	$584.00	$584.00
Sr. Engineer/Scientist II	$2,144.00	$1,072.00
Sr. Engineer/Scientist I	$5,040.00	$1,512.00
Sr. Project Engineer/Scientist II	$5,280.00	$2,200.00
Sr. Project Engineer/Scientist I	$12,000.00	$0.00
Project Engineer/Scientist	$0.00	$3,640.00
Engineer/Scientist	$0.00	$0.00
Sr. Construction Resident	$0.00	$0.00
Technician IV	$0.00	$0.00
Technician III	$0.00	$0.00
Construction Resident	$0.00	$8,400.00
Technician II	$0.00	$0.00
Technician I	$0.00	$0.00
Sr. Drafter	$560.00	$0.00
Drafter	$864.00	$216.00
Document Technician	$1,160.00	$580.00
Consultant Labor Subtotal:	**$27,632.00**	**$18,204.00**
Consultant Direct Costs:		
Shipping	$0.00	$0.00
Vehicle Rental	$0.00	$1,000.00
Travel Costs, incl. meals	$0.00	$0.00
Rental Equipment	$0.00	$400.00
Disposable Supplies	$0.00	$300.00
Phone	$0.00	$50.00
Document Reproduction	$20.00	$20.00
Equipment	$0.00	$0.00
Clean Fill	$0.00	$0.00
Materials (Pilot Testing Additives)	$0.00	$0.00
Energy (Pilot Testing)	$0.00	$0.00
Utilities	$0.00	$0.00
Consultant Direct Costs Subtotal:	**$20.00**	**$1,770.00**
Consultant Indirect Costs Subtotal:	**$0.00**	**$293,310.00**
Task Subtotal:	**$27,652.00**	**$313,284.00**
Task Total [1]:	**$341,000.00**	

Notes:

1. Time and Materials-not to exceed without further change order follow-up.

2. Identified classifications are intended as examples and actual hours and classifications used could vary depending on availability.

3. Consultant Indirect Costs include costs such as laboratory, waste disposal, drillers, surveyors and construction subcontractors. Estimated costs are based on previous work completed at the Site and are for budgetary purposes. ARCADIS makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual costs. The Client understands that ARCADIS has no control over costs; the price of labor, equipment, or materials; or the construction contractor's methods of pricing. Final cost will be based on subcontractor quote and subject to Cleanup Manger approval and mark-up.

4. Laboratory costs assume 123 confirmation samples (1 day turn, 5' grid, includes 10% failure rate).

5. Volume assumes a 25% swell factor and a 1.5 tons to cubic yard ratio.

6. The field aspect of this project is expected to take 10 days (12 hours per day) to complete.

7. Arcades Labor includes development of a work plan, bid development and solicitation, management of the subcontractor, sampling, and manifesting of wastes.

8. Assumes excavation will be completed to a depth of 10 ft. bgs. and does not include excavation below the groundwater table (no dewatering/water management).

9. Assumes the excavation will be completed without additional support of any adjacent utilities.

10. Assumes stepouts will be completed based on unit rates provided.

11. Assumes 540 tons will be trucked offsite per day.

12. Assumes ARCADIS Technician will recover LNAPL from wells prior to excavation for 3 days, generating 2 drums per day of TSCA PCB waste.

13. Assumes excavations can be safely completed with a 1:1 Slope.

14. Assumes excavated material will not require solidification and will be disposed as TSCA PCB solid waste (1,319 tons).

15. Does not include delays associated with the large obstructions (i.e. concrete walls, footings, large boulders) encountered during excavation activities.

Table CC-6

AOI 81-2 Targeted Excavation Cost Estimate
RACER Trust, Buick City Site, Flint, Michigan

RACER Task Number and Description:	81-2 Non-TSCA PCB Excavation Design	81-2 Non-TSCA PCB Excavation - 6 - 7.5 Feet Deep
	Cost	Cost
Consultant Labor [2]:		
Principal	$584.00	$584.00
Sr. Engineer/Scientist II	$1,072.00	$1,072.00
Sr. Engineer/Scientist I	$3,024.00	$1,512.00
Sr. Project Engineer/Scientist II	$5,940.00	$3,300.00
Sr. Project Engineer/Scientist I	$0.00	$0.00
Project Engineer/Scientist	$9,100.00	$5,460.00
Engineer/Scientist	$0.00	$0.00
Sr. Construction Resident	$0.00	$0.00
Technician IV	$0.00	$0.00
Technician III	$0.00	$0.00
Construction Resident	$0.00	$10,920.00
Technician II	$0.00	$0.00
Technician I	$0.00	$0.00
Sr. Drafter	$280.00	$0.00
Drafter	$432.00	$216.00
Document Technician	$580.00	$580.00
Consultant Labor Subtotal:	**$21,012.00**	**$23,644.00**
Consultant Direct Costs:		
Shipping	$0.00	$0.00
Vehicle Rental	$0.00	$1,400.00
Travel Costs, incl. meals	$0.00	$0.00
Rental Equipment	$0.00	$400.00
Disposable Supplies	$0.00	$300.00
Phone	$0.00	$50.00
Document Reproduction	$20.00	$20.00
Equipment	$0.00	$0.00
Clean Fill	$0.00	$0.00
Materials (Pilot Testing Additives)	$0.00	$0.00
Energy (Pilot Testing)	$0.00	$0.00
Utilities	$0.00	$0.00
Consultant Direct Costs Subtotal:	**$20.00**	**$2,170.00**
Consultant Indirect Costs Subtotal:	**$0.00**	**$233,641.36**
Task Subtotal:	**$21,032.00**	**$258,615.36**
Task Total [1]:	**$280,000.00**	

Notes:

1. Time and Materials-not to exceed without further change order follow-up.

2. Identified classifications are intended as examples and actual hours and classifications used could vary depending on availability.

3. Consultant Indirect Costs include costs such as laboratory, waste disposal, drillers, surveyors and construction subcontractors. Estimated costs are based on previous work completed at the Site and are for budgetary purposes. ARCADIS makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual costs. The Client understands that ARCADIS has no control over costs; the price of labor, equipment, or materials; or the construction contractor's methods of pricing. Final cost will be based on subcontractor quote and subject to Cleanup Manger approval and mark-up.

4. Laboratory costs assume 211 confirmation samples (1 day turn, 5' grid, includes 10% failure rate).

5. Volume assumes a 25% swell factor and a 1.5 tons to cubic yard ratio.

6. The field aspect of this project is expected to take 10 days (12 hours per day) to complete.

7. Arcades Labor includes development of a work plan, bid development and solicitation, management of the subcontractor, sampling, and manifesting of wastes.

8. Assumes 70-107R and 70-103 excavations will be completed to a depth of 7.5 ft. bgs.

9. Assumes 70-101 excavation will be completed to a depth of 6 ft. bgs.

10. Costs do not include excavation below the groundwater table (no dewatering/water management).

11. Assumes the excavation will be completed without additional support of any adjacent utilities.

12. Assumes stepouts will be completed based on unit rates provided.

13. Assumes 540 tons will be trucked offsite per day.

14. Assumes ARCADIS Technician will recover LNAPL from wells prior to excavation for up to an additional 3 days to decrease product encountered during excavation. Assumes 2 drums of product per day.

15. Assumes excavations can be safely completed with a 1:1 Slope.

16. Assumes excavated material will not require solidification and will be disposed as non-TSCA PCB solid waste (1,776 tons).

17. Does not include delays associated with the large obstructions (i.e. concrete walls, footings, large boulders) encountered during excavation activities.

Table CC-7

AOI 83/84-2 Targeted Excavation Cost Estimate
RACER Trust, Buick City Site, Flint, Michigan

RACER Task Number and Description:	83/84-2 Non-TSCA PCB Excavation Design	83/84-2 Non-TSCA PCB Excavation - 10 Feet Deep
	Cost	Cost
Consultant Labor [2]:		
Principal	$584.00	$292.00
Sr. Engineer/Scientist II	$1,072.00	$536.00
Sr. Engineer/Scientist I	$2,016.00	$1,260.00
Sr. Project Engineer/Scientist II	$3,520.00	$1,760.00
Sr. Project Engineer/Scientist I	$0.00	$0.00
Project Engineer/Scientist	$4,368.00	$3,640.00
Engineer/Scientist	$0.00	$0.00
Sr. Construction Resident	$0.00	$0.00
Technician IV	$0.00	$0.00
Technician III	$0.00	$0.00
Construction Resident	$0.00	$6,720.00
Technician II	$0.00	$0.00
Technician I	$0.00	$0.00
Sr. Drafter	$0.00	$0.00
Drafter	$216.00	$216.00
Document Technician	$580.00	$580.00
Consultant Labor Subtotal:	**$12,356.00**	**$15,004.00**
Consultant Direct Costs:		
Shipping	$0.00	$0.00
Vehicle Rental	$0.00	$1,000.00
Travel Costs, incl. meals	$0.00	$0.00
Rental Equipment	$0.00	$400.00
Disposable Supplies	$0.00	$300.00
Phone	$0.00	$50.00
Document Reproduction	$20.00	$20.00
Equipment	$0.00	$0.00
Clean Fill	$0.00	$0.00
Materials (Pilot Testing Additives)	$0.00	$0.00
Energy (Pilot Testing)	$0.00	$0.00
Utilities	$0.00	$0.00
Consultant Direct Costs Subtotal:	**$20.00**	**$1,770.00**
Consultant Indirect Costs Subtotal:	**$0.00**	**$84,876.24**
Task Subtotal:	**$12,376.00**	**$101,650.24**
Task Total [1]:	**$115,000.00**	

Notes:

1. Time and Materials-not to exceed without further change order follow-up.

2. Identified classifications are intended as examples and actual hours and classifications used could vary depending on availability.

3. Consultant Indirect Costs include costs such as laboratory, waste disposal, drillers, surveyors and construction subcontractors. Estimated costs are based on previous work completed at the Site and are for budgetary purposes. ARCADIS makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual costs. The Client understands that ARCADIS has no control over costs; the price of labor, equipment, or materials; or the construction contractor's methods of pricing. Final cost will be based on subcontractor quote and subject to Cleanup Manger approval and mark-up.

4. Laboratory costs assume 106 confirmation samples (1 day turn, 5' grid, includes 10% failure rate).

5. Volume assumes a 25% swell factor and a 1.5 tons to cubic yard ratio.

6. The field aspect of this project is expected to take 5 days (12 hours per day) to complete.

7. Arcadis Labor includes development of a work plan, bid development and solicitation, management of the subcontractor, sampling, and manifesting of wastes.

8. Assumes 83/84-2 excavations will be completed to a depth of 10 ft. bgs.

9. Costs do not include excavation below the groundwater table (no dewatering/water management).

10. Assumes the excavation will be completed without additional support of any adjacent utilities.

11. Assumes stepouts will be completed based on unit rates provided.

12. Assumes 540 tons will be trucked offsite per day.

13. Assumes ARCADIS Technician will recover LNAPL from wells prior to excavation for up to an additional 3 days to decrease product encountered during excavation. Assumes 2 drums of product per day.

14. Assumes excavations can be safely completed with a 1:1 Slope.

15. Assumes excavated material will not require solidification and will be disposed as non-TSCA PCB solid waste (421 tons).

16. Does not include delays associated with the large obstructions (i.e. concrete walls, footings, large boulders) encountered during excavation activities.

Table CC-8 **Hydraulic Recovery Cost Estimate**
RACER Trust, Buick City Site, Flint, Michigan

RACER Task Number and Description:	Remedy Memo Cost Estimates	
	Work Plan Development	Hydraulic Recovery
	Cost	Cost
Consultant Labor [2]:		
Principal	$146.00	$876.00
Sr. Engineer/Scientist II	$804.00	$2,144.00
Sr. Engineer/Scientist I	$1,008.00	$0.00
Sr. Project Engineer/Scientist II	$1,760.00	$2,640.00
Sr. Project Engineer/Scientist I	$0.00	$0.00
Project Engineer/Scientist	$2,912.00	$2,730.00
Engineer/Scientist	$0.00	$0.00
Sr. Construction Resident	$0.00	$0.00
Technician IV	$0.00	$0.00
Technician III	$0.00	$9,880.00
Construction Resident	$0.00	$0.00
Technician II	$0.00	$0.00
Technician I	$0.00	$0.00
Sr. Drafter	$0.00	$0.00
Drafter	$432.00	$0.00
Document Technician	$464.00	$464.00
Consultant Labor Subtotal:	**$7,526.00**	**$18,734.00**
Consultant Direct Costs:		
Shipping	$0.00	$0.00
Vehicle Rental	$0.00	$1,200.00
Travel Costs, incl. meals	$0.00	$0.00
Rental Equipment	$0.00	$0.00
Disposable Supplies	$0.00	$500.00
Phone	$0.00	$50.00
Document Reproduction	$50.00	$0.00
Equipment	$0.00	$0.00
Clean Fill	$0.00	$0.00
Materials (Pilot Testing Addititives)	$0.00	$0.00
Energy (Pilot Testing)	$0.00	$0.00
Utilities	$0.00	$0.00
Consultant Direct Costs Subtotal:	**$50.00**	**$1,750.00**
Consultant Indirect Costs Subtotal:	**$0.00**	**$1,400.00**
Task Subtotal:	**$7,576.00**	**$21,884.00**
Task Total [1]:	**$29,500.00**	

Notes:

1. Time and Materials-not to exceed without further change order follow-up.

2. Identified classifications are intended as examples and actual hours and classifications used could vary depending on availability.

3. Consultant Indirect Costs include costs such as laboratory, waste disposal, drillers, surveyors and construction subcontractors. Estimated costs are based on previous work completed at the Site and are for budgetary purposes. ARCADIS makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual costs. The Client understands that ARCADIS has no control over costs; the price of labor, equipment, or materials; or the construction contractor's methods of pricing. Final cost will be based on subcontractor quote and subject to Cleanup Manger approval and mark-up.

4. Disposal costs assume that the material will be characterized as non-hazardous with no PCB detections. Waste collection is based on the generating 1 drum per month.

5. Laboratory costs include 1 full waste characterization sample per year.

6. Assumes one 10 hour day of active LNPAL removal per month.

Table CC-9 **AOI 36-1/36-2 MPE System Cost Estimate**
RACER Trust, Buick City Site, Flint, Michigan

RACER Task Number and Description:	AOI 36 MPE System Cost Estimate	
	Design	Installation
	Cost	Cost
Consultant Labor [2]:		
Principal	$2,336.00	$4,672.00
Sr. Engineer/Scientist II	$5,360.00	$6,432.00
Sr. Engineer/Scientist I	$8,064.00	$5,040.00
Sr. Project Engineer/Scientist II	$11,000.00	$13,200.00
Sr. Project Engineer/Scientist I	$6,000.00	$0.00
Project Engineer/Scientist	$16,380.00	$14,560.00
Engineer/Scientist	$0.00	$0.00
Sr. Construction Resident	$0.00	$0.00
Technician IV	$0.00	$0.00
Technician III	$0.00	$36,480.00
Construction Resident	$0.00	$0.00
Technician II	$0.00	$0.00
Technician I	$0.00	$0.00
Sr. Drafter	$1,120.00	$700.00
Drafter	$2,160.00	$2,160.00
Document Technician	$1,392.00	$1,160.00
Consultant Labor Subtotal:	**$53,812.00**	**$84,404.00**
Consultant Direct Costs:		
Shipping	$0.00	$0.00
Vehicle Rental	$0.00	$5,000.00
Travel Costs, incl. meals	$0.00	$0.00
Rental Equipment	$0.00	$0.00
Disposable Supplies	$0.00	$1,000.00
Phone	$0.00	$150.00
Document Reproduction	$500.00	$500.00
Equipment	$0.00	$0.00
Clean Fill	$0.00	$0.00
Materials (Pilot Testing Additives)	$0.00	$0.00
Energy (Pilot Testing)	$0.00	$0.00
Utilities	$0.00	$0.00
Consultant Direct Costs Subtotal:	**$500.00**	**$6,650.00**
Consultant Indirect Costs Subtotal:	**$0.00**	**$725,000.00**
Task Subtotal:	**$54,312.00**	**$816,054.00**
Task Total [1]:	**$871,000.00**	

Notes:

1. Time and Materials-not to exceed without further change order follow-up.

2. Identified classifications are intended as examples and actual hours and classifications used could vary depending on availability.

3. Consultant Indirect Costs include costs such as laboratory, waste disposal, drillers, surveyors and construction subcontractors. Estimated costs are based on previous work completed at the Site and are for budgetary purposes. ARCADIS makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual costs. The Client understands that ARCADIS has no control over costs; the price of labor, equipment, or materials; or the construction contractor's methods of pricing. Final cost will be based on subcontractor quote and subject to Cleanup Manger approval and mark-up.

4. Disposal costs assume that the material is anticipated to be non-hazardous with no PCB detections (945 tons).

5. Costs assume installation of 33 collection wells, 8,000 linear feet of HDPE pipe, and the addition of heat trace to the piping.

6. The field aspect of this project is expected to take 8 weeks to complete working 5 (12 hour) days per week.

7. Assumes a removal rate of 540 tons per day. Activities will occur concurrently (excavation, pipe installation, backfilling, etc.)

8. Assumes that 2 full waste characteristic sample will be collected.

9. Volume assumes a 25% swell factor and a 1.5 tons to cubic yard ratio.

10. Assumes relocation of the existing system can be completed with a crane and flatbed. Additional modifications to the system may be necessary as a result of the pilot testing.

Table CC-10 **AOI 83/84-5 LNAPL Removal Cost Estimate**
RACER Trust, Buick City Site, Flint, Michigan

RACER Task Number and Description:	Remedy Memo Cost Estimates	
	AOI 83/84-5 - Work Plan Development	AOI 83/84-5 - Annual LNAPL Removal
	Cost	Cost
Consultant Labor [2]:		
Principal	$146.00	$2,336.00
Sr. Engineer/Scientist II	$804.00	$4,288.00
Sr. Engineer/Scientist I	$1,008.00	$0.00
Sr. Project Engineer/Scientist II	$1,760.00	$5,940.00
Sr. Project Engineer/Scientist I	$0.00	$0.00
Project Engineer/Scientist	$2,912.00	$9,828.00
Engineer/Scientist	$0.00	$0.00
Sr. Construction Resident	$0.00	$0.00
Technician IV	$0.00	$0.00
Technician III	$0.00	$46,360.00
Construction Resident	$0.00	$0.00
Technician II	$0.00	$0.00
Technician I	$0.00	$0.00
Sr. Drafter	$0.00	$0.00
Drafter	$432.00	$0.00
Document Technician	$464.00	$928.00
Consultant Labor Subtotal:	**$7,526.00**	**$69,680.00**
Consultant Direct Costs:		
Shipping	$0.00	$0.00
Vehicle Rental	$0.00	$4,230.00
Travel Costs, incl. meals	$0.00	$0.00
Rental Equipment	$0.00	$0.00
Disposable Supplies	$0.00	$1,000.00
Phone	$50.00	$200.00
Document Reproduction	$0.00	$0.00
Equipment	$0.00	$0.00
Clean Fill	$0.00	$0.00
Materials (Pilot Testing Additives)	$0.00	$0.00
Energy (Pilot Testing)	$0.00	$0.00
Utilities	$0.00	$0.00
Consultant Direct Costs Subtotal:	**$50.00**	**$5,430.00**
Consultant Indirect Costs Subtotal:	**$0.00**	**$3,900.00**
Task Subtotal:	**$7,576.00**	**$79,010.00**
Task Total [1]:	**$86,600.00**	

Notes:

1. Time and Materials-not to exceed without further change order follow-up.

2. Identified classifications are intended as examples and actual hours and classifications used could vary depending on availability.

3. Consultant Indirect Costs include costs such as laboratory, waste disposal, drillers, surveyors and construction subcontractors. Estimated costs are based on previous work completed at the Site and are for budgetary purposes. ARCADIS makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual costs. The Client understands that ARCADIS has no control over costs; the price of labor, equipment, or materials; or the construction contractor's methods of pricing. Final cost will be based on subcontractor quote and subject to Cleanup Manger approval and mark-up.

4. Disposal costs assume that the material will be characterized as non-hazardous with no PCB detections. Waste collection is based on the generating 4 drums per month.

5. Laboratory costs include 1 full waste characterization sample per year.

6. Assumes five 10 hour day of active LNPAL removal per month.

7. Assumes that the removal can be completed using the existing well network.

Table CC-11

Passive Recovery Trench Cost Estimate
RACER Trust, Buick City Site, Flint, Michigan

RACER Task Number and Description:	Remedy Memo Cost Estimates
	Passive Recovery Trenches
	Cost
Consultant Labor [2]:	
Principal	$438.00
Sr. Engineer/Scientist II	$1,340.00
Sr. Engineer/Scientist I	$0.00
Sr. Project Engineer/Scientist II	$1,320.00
Sr. Project Engineer/Scientist I	$0.00
Project Engineer/Scientist	$1,820.00
Engineer/Scientist	$0.00
Sr. Construction Resident	$0.00
Technician IV	$0.00
Technician III	$2,128.00
Construction Resident	$0.00
Technician II	$0.00
Technician I	$0.00
Sr. Drafter	$0.00
Drafter	$0.00
Document Technician	$0.00
Consultant Labor Subtotal:	**$7,046.00**
Consultant Direct Costs:	
Shipping	$0.00
Vehicle Rental	$1,000.00
Travel Costs, incl. meals	$0.00
Rental Equipment	$0.00
Disposable Supplies	$500.00
Phone	$0.00
Document Reproduction	$0.00
Equipment	$0.00
Clean Fill	$0.00
Materials (Pilot Testing Addititives)	$0.00
Energy (Pilot Testing)	$0.00
Utilities	$0.00
Consultant Direct Costs Subtotal:	**$1,500.00**
Consultant Indirect Costs Subtotal:	**$700.00**
Task Subtotal:	**$9,246.00**
Task Total [1]:	**$9,246.00**

Notes:

1. Time and Materials-not to exceed without further change order follow-up.

2. Identified classifications are intended as examples and actual hours and classifications used could vary depending on availability.

3. Consultant Indirect Costs include costs such as laboratory, waste disposal, drillers, surveyors and construction subcontractors. Estimated costs are based on previous work completed at the Site and are for budgetary purposes. ARCADIS makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual costs. The Client understands that ARCADIS has no control over costs; the price of labor, equipment, or materials; or the construction contractor's methods of pricing. Final cost will be based on subcontractor quote and subject to Cleanup Manger approval and mark-up.

4. Disposal costs assume that the material will be characterized as non-hazardous with no PCB detections. Waste collection is based on the Outfall 02 passive recovery trench, ~ 20 gallons per year.

5. Assumes monthly inspections, including 2 additional inspections, to verify abrobent material saturation limits and replace as necessary.

Table CC-12

Passive Recovery Trench Cost Estimate
RACER Trust, Buick City Site, Flint, Michigan

RACER Task Number and Description:	Remedy Memo Cost Estimates
	Select Surface Covers
	Cost
Consultant Labor [2]:	
Principal	$715.00
Sr. Engineer/Scientist II	$524.00
Sr. Engineer/Scientist I	$1,240.00
Sr. Project Engineer/Scientist II	$0.00
Sr. Project Engineer/Scientist I	$2,744.00
Project Engineer/Scientist	$0.00
Engineer/Scientist	$0.00
Sr. Construction Resident	$0.00
Technician IV	$0.00
Technician III	$2,368.00
Construction Resident	$0.00
Technician II	$0.00
Technician I	$0.00
Sr. Drafter	$0.00
Drafter	$0.00
Document Technician	$285.00
Consultant Labor Subtotal:	**$7,876.00**
Consultant Direct Costs:	
Shipping	$0.00
Vehicle Rental	$300.00
Travel Costs, incl. meals	$0.00
Rental Equipment	$0.00
Disposable Supplies	$500.00
Phone	$50.00
Document Reproduction	$20.00
Equipment	$0.00
Clean Fill	$0.00
Materials (Pilot Testing Addititives)	$0.00
Energy (Pilot Testing)	$0.00
Utilities	$0.00
Consultant Direct Costs Subtotal:	**$870.00**
Consultant Indirect Costs Subtotal:	**$16,228.50**
Task Subtotal:	**$24,974.50**
Task Total [1]:	**$25,000.00**

Notes:

1. Time and Materials-not to exceed without further change order follow-up.

2. Identified classifications are intended as examples and actual hours and classifications used could vary depending on availability.

3. Consultant Indirect Costs include costs such as laboratory, waste disposal, drillers, surveyors and construction subcontractors. Estimated costs are based on previous work completed at the Site and are for budgetary purposes. ARCADIS makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual costs. The Client understands that ARCADIS has no control over costs; the price of labor, equipment, or materials; or the construction contractor's methods of pricing. Final cost will be based on subcontractor quote and subject to Cleanup Manger approval and mark-up.

4. Subcontractor costs include instllation of liner, cover Monitoring well frames, and Manhole covers. Assumes 10,000 square feet of coverage is required.

5. This scope of field work is expected to take 3 days to complete.

Table CC-13

Institutional Controls
RACER Trust, Buick City Site, Flint, Michigan

RACER Task Number and Description:	Restrictive Covenant Surveying
	Cost
Consultant Labor [2]:	
Principal	$584.00
Sr. Engineer/Scientist II	$1,340.00
Sr. Engineer/Scientist I	$2,268.00
Sr. Project Engineer/Scientist II	$1,100.00
Sr. Project Engineer/Scientist I	$0.00
Project Engineer/Scientist	$3,640.00
Engineer/Scientist	$740.00
Sr. Construction Resident	$0.00
Technician IV	$0.00
Technician III	$0.00
Construction Resident	$0.00
Technician II	$0.00
Technician I	$0.00
Sr. Drafter	$0.00
Drafter	$0.00
Document Technician	$580.00
Consultant Labor Subtotal:	**$10,252.00**
Consultant Direct Costs:	
Shipping	$40.00
Vehicle Rental	$100.00
Travel Costs, incl. meals	$0.00
Rental Equipment	$0.00
Disposable Supplies	$0.00
Phone	$0.00
Document Reproduction	$200.00
Equipment	$0.00
Clean Fill	$0.00
Materials (Pilot Testing Addititives)	$0.00
Energy (Pilot Testing)	$0.00
Utilities	$0.00
Consultant Direct Costs Subtotal:	**$340.00**
Consultant Indirect Costs Subtotal:	**$2,000.00**
Task Subtotal:	**$12,592.00**
Task Total [1]:	**$12,592.00**

Notes:

1. Time and Materials-not to exceed without further change order follow-up.

2. Identified classifications are intended as examples and actual hours and classifications used could vary depending on availability.

3. Consultant Indirect Costs include costs such as laboratory, waste disposal, drillers, surveyors and construction subcontractors. Estimated costs are based on previous work completed at the Site and are for budgetary purposes. ARCADIS makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual costs. The Client understands that ARCADIS has no control over costs; the price of labor, equipment, or materials; or the construction contractor's methods of pricing. Final cost will be based on subcontractor quote and subject to Cleanup Manger approval and mark-up.

4. Assumes there are nine (9) separate areas surveyed for restrictive covenants.

5. Assumes that two areas of restricive covenant will be surveyed under one mobilization and not more than six (6) corners will be set for each area. Permanent corner markers consist of 1/2" iron rods (18" in length) will be used for corners. Costs increase if brass disks (24" length) are required).

6. A fee of $50 applies for each corner in excess of six (6) should be added.

7. Survey costs are for a maximum and will be invoiced on the basis of time and material using the BMJ hourly rate schedule.

Appendix DD

February 15, 2016

ARCADIS of Michigan, LLC
28550 Cabot Drive
Suite 500
Novi
Michigan 48377
Tel 248 994 2240
Fax 248 994 2241

MEMO

To:
Chris Black, USEPA Region 5

Copies:
Grant Trigger, RACER
Dave Favero, RACER

From:
Micki M. Maki

Date:
February 15, 2016

ARCADIS Project No.:
B0064410.2016

Subject:
Remedy Recommendation Report
Appendix DD – RFI-81-38 Investigation Summary Memo
RACER Buick City Site, Flint, Michigan

Introduction

This RFI-81-38 Investigation Summary Memo Appendix DD presents a summary of the investigation activities conducted at the RFI-81-38 Area from March 19, 2014 through December 31, 2105 at the Buick City Site (Site) located in Flint, Michigan.

In 2003 soil boring RFI-81-38 was completed at the former Factory 81 Area during RCRA Facility Investigation (RFI) activities. Concentrations in the soil sample collected at RFI-81-38 from 1 to 3 feet below ground surface (ft bgs) exceeded nonresidential infinite source volatile soil inhalation criteria (NVSICI) ambient air criteria for 1,1,1-trichloroethane, 1,1,2-trichloro-1,2,2-trifluoroethane, 1,1-dichloroethane, and 1,1-dichloroethene.

Summary of Investigation Activities

Investigation activities were completed at RFI-81-38 to characterize VOC concentrations in soil gas beneath the building slab (**Figure DD-1**). Five sub-surface monitoring points (SSMP) were installed to evaluate soil gas beneath the former building slab at the RFI-81-38 Area. One monitoring point (SSMP-81-03) was co-located with monitoring well RFI-81-38, while the remaining four monitoring points (SSMP-81-04 through

SSMP-81-07) were placed approximately 20 feet in each direction. Following installation of the SSMPs in November 2015, soil gas samples were collected and submitted for laboratory analysis of VOCs.

Summary of Data Evaluation

One round of soil gas samples were collected from SSMP-81-03 through SSMP-81-07. VOCs were not detected above Nonresidential Michigan Department of Environmental Quality (MDEQ) Vapor Intrusion (VI) Soil Gas Screening Levels (**Table DD-1**) at SSMP-81-03, which is co-located with RFI-81-38, or the step-outs at SSMP-81-04, SSMP-81-05, or SSMP-81-07. However, the MDEQ VI Soil Gas Screening Levels were exceeded at SSMP-81-06 for 1,1-dichloroethane, trichloroethene, trichlorotrifluoroethane, and vinyl chloride. A second round of soil gas sampling is scheduled to be completed in Spring 2016.

Table DD-1

Summary of Soil Gas Investigation
Remedy Recommendation Report Appendix DD – RFI-81-38 Impacts
RACER Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	SGVI-NR	SGVI-SS-NR	SSMP-81-03 11/23/15	SSMP-81-04 3.0 11/20/15	SSMP-81-05 3.0 11/20/15	SSMP-81-06 11/23/15	SSMP-81-07 11/23/15
VOC								
1,1,1-Trichloroethane	ppbv	6,100,000	610,000	4.6 U	9.4 U	30 U	210,000	300
1,1,2,2-Tetrachloroethane	ppbv	430	43	4.6 U	9.5 U	30 U	510 U	8.8 U
1,1,2-Trichloroethane	ppbv	2,000	200	2.3 U	4.7 U	15 U	250 U	4.3 U
1,1-Dichloroethane	ppbv	690,000	69,000	24	47 U	150 U	**1,900,000**	1,200
1,1-Dichloroethene	ppbv	280,000	28,000	4.6 U	9.5 U	30 U	3,600	9
1,2,4-Trichlorobenzene	ppbv	3,000	300	22 U	46 U	150 U	2,500 U	42 U
1,2,4-Trimethylbenzene	ppbv	250,000	25,000	23 U	47 U	150 U	2,500 U	56 E
1,2-Dibromoethane (Ethylene dibromide)	ppbv	38	3.8	2.4 U	4.9 U	15 U	260 U	4.5 U
1,2-Dichlorobenzene	ppbv	280,000	28,000	23 U	47 U	150 U	2,500 U	43 U
1,2-Dichloroethane	ppbv	1,600	160	2.3 U	4.7 U	15 U	250 U	4.3 U
1,2-Dichloropropane	ppbv	4,800	480	4.6 U	9.5 U	30 U	510 U	8.8 U
1,3,5-Trimethylbenzene	ppbv	250,000	25,000	23 U	47 U	150 U	2,500 U	43 U
1,3-Butadiene	ppbv	- -	- -	23 U	47 U	150 U	2,500 U	43 U
1,3-Dichlorobenzene	ppbv	2,800	280	2.3 U	4.7 U	15 U	250 U	4.3 U
1,4-Dichlorobenzene	ppbv	4,200	420	4.6 U	9.5 U	30 U	510 U	8.8 U
1,4-Dioxane	ppbv	- -	- -	23 U	47 U	150 U	2,500 U	44 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppbv	9,400,000	940,000	23 U	48 U	150 U	2,600 U	44 U
2-Hexanone	ppbv	41,000	4,100	23 U	48 U	150 U	2,600 U	44 U
2-Methylnaphthalene	ppbv	9,500	950	41 U	85 U	270 U	4,600 U	78 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppbv	4,100,000	410,000	23 U	47 U	150 U	2,500 U	85
Acetone	ppbv	14,000,000	1,400,000	110 E	130	300	2,600 U	44 U
Benzene	ppbv	6,500	650	3.8	4.9 U	15 U	260 U	11
Benzyl chloride	ppbv	680	68	23 U	47 U	150 U	2,500 U	44 U
Bromodichloromethane	ppbv	1,400	140	2.3 U	4.7 U	15 U	250 U	4.3 U
Bromoform	ppbv	15,000	1,500	4.6 U	9.4 U	30 U	500 U	8.6 U
Bromomethane (Methyl bromide)	ppbv	7,100	710	4.3 U	8.9 U	28 U	480 U	8.1 U
Carbon disulfide	ppbv	1,200,000	120,000	22 U	46 U	150 U	2,500 U	42 U
Carbon tetrachloride	ppbv	4,600	460	2.4 U	4.9 U	15 U	260 U	4.5 U
Chlorobenzene	ppbv	84,000	8,400	4.6 U	9.5 U	30 U	510 U	8.8 U
Chloroethane	ppbv	21,000,000	2,100,000	21 U	44 U	140 U	43,000	950
Chloroform (Trichloromethane)	ppbv	15,000	1,500	2.3 U	4.7 U	15 U	250 U	4.3 U
Chloromethane (Methyl chloride)	ppbv	130,000	13,000	22 U	45 U	140 U	2,400 U	41 U
cis-1,2-Dichloroethene	ppbv	9,800	980	4.6 U	9.5 U	30 U	510 U	8.8 U
cis-1,3-Dichloropropene	ppbv	- -	- -	4.6 U	9.5 U	30 U	510 U	8.8 U

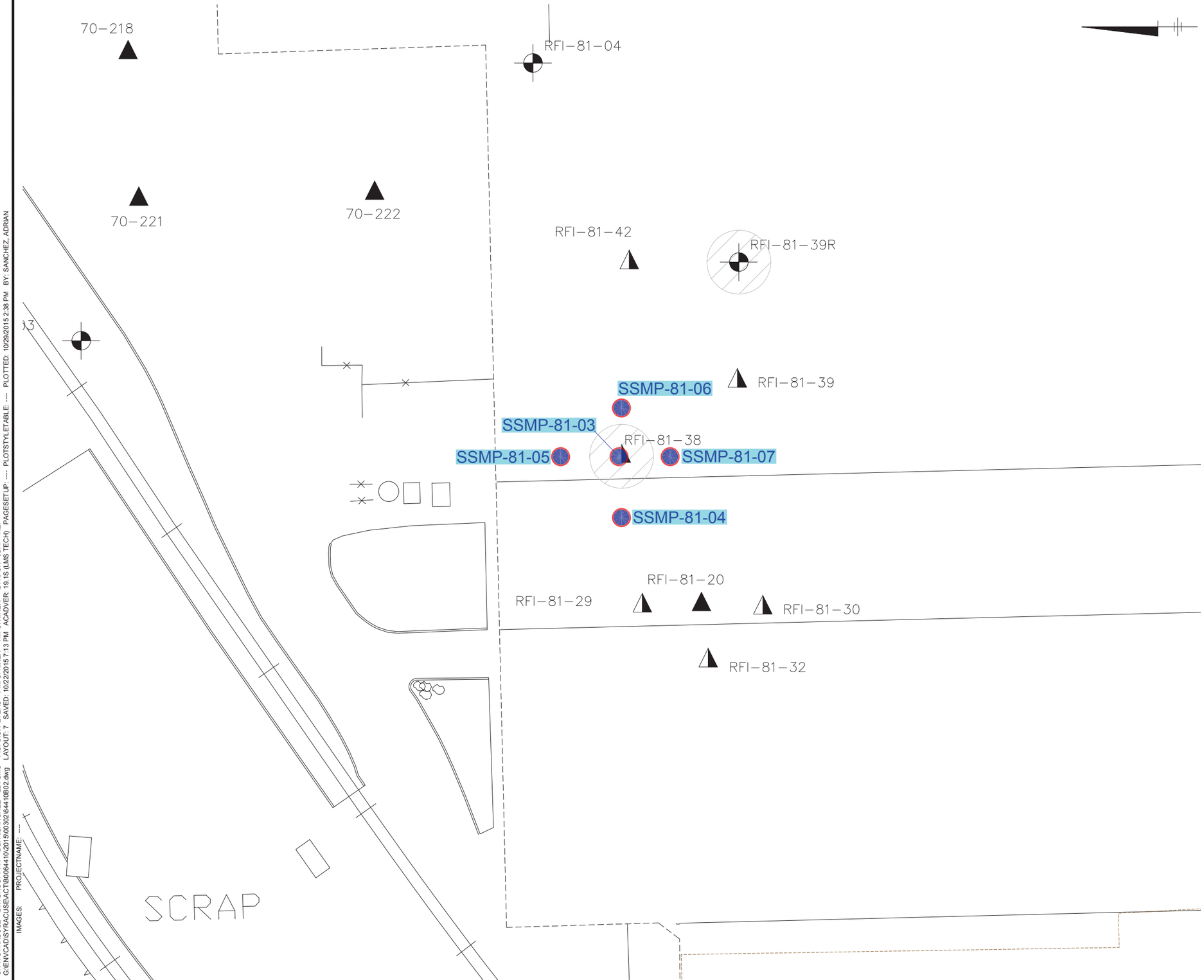
Table DD-1

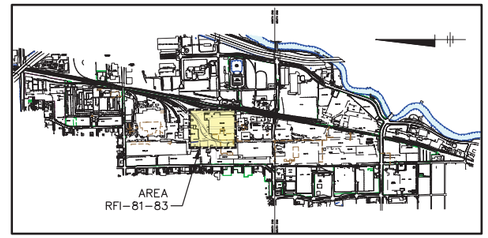
Summary of Soil Gas Investigation
Remedy Recommendation Report Appendix DD – RFI-81-38 Impacts
RACER Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	SGVI-NR	SGVI-SS-NR	SSMP-81-03 11/23/15	SSMP-81-04 3.0 11/20/15	SSMP-81-05 3.0 11/20/15	SSMP-81-06 11/23/15	SSMP-81-07 11/23/15
Cyclohexane	ppbv	9,700,000	970,000	23 U	48 U	150 U	2,600 U	44 U
Dibromochloromethane	ppbv	830	83	2.4 U	4.9 U	15 U	260 U	4.5 U
Dichlorodifluoromethane (CFC-12)	ppbv	56,000,000	5,600,000	17	150	470	240 U	9.2
Ethyl acetate	ppbv	4,900,000	490,000	23 U	48 U	150 U	2,600 U	44 U
Ethylbenzene	ppbv	130,000	13,000	4.6 U	9.5 U	30 U	510 U	8.8 U
Hexachlorobutadiene	ppbv	740	74	4.5 U	9.2 U	29 U	490 U	8.4 U
Hexane	ppbv	1,100,000	110,000	130	48 U	150 U	2,600 U	450
Isopropyl alcohol	ppbv	- -	- -	23 U	48 U	150 U	2,600 U	44 U
m&p-Xylene	ppbv	- -	- -	9.1 U	19 U	60 U	1,000 U	17 U
Methyl tert butyl ether (MTBE)	ppbv	4,600,000	460,000	23 U	48 U	150 U	2,600 U	44 U
Methylene chloride	ppbv	180,000	18,000	23 U	48 U	150 U	5,000	150
Naphthalene	ppbv	2,800	280	23 U	48 U	150 U	2,600 U	44 U
N-Heptane	ppbv	4,700,000	470,000	31	48 U	150 U	2,600 U	98
o-Xylene	ppbv	- -	- -	23 U	48 U	150 U	2,600 U	44 U
Styrene	ppbv	71,000	7,100	23 U	48 U	150 U	2,600 U	44 U
Tetrachloroethene	ppbv	33,000	3,300	2.3 U	4.7 U	15 U	250 U	4.3 U
Tetrahydrofuran	ppbv	34,000	3,400	23 U	48 U	150 U	2,600 U	44 U
Toluene	ppbv	7,400,000	740,000	23 U	48 U	150 U	2,600 U	44 U
trans-1,2-Dichloroethene	ppbv	98,000	9,800	4.6 U	9.5 U	30 U	510 U	8.8 U
trans-1,3-Dichloropropene	ppbv	- -	- -	4.6 U	9.5 U	30 U	510 U	8.8 U
Trichloroethene	ppbv	2,100	210	2.3 U	4.7 U	15 U	**450**	11
Trichlorofluoromethane (CFC-11)	ppbv	56,000,000	5,600,000	23 U	48 U	150 U	2,600 U	44 U
Trifluorotrichloroethane (Freon 113)	ppbv	14,000,000	1,400,000	16	520	3,800	**3,300,000**	840
Vinyl acetate	ppbv	320,000	32,000	23 U	48 U	150 U	2,600 U	44 U
Vinyl chloride	ppbv	15,000	1,500	4.5 U	9.2 U	29 U	**27,000**	18
Xylene (total)	ppbv	130,000	13,000	32 U	66 U	210 U	3,600 U	61 U

Notes:
ppbv - parts per billion by volume
ft - feet
NA - Not Analyzed
U – not detected above the reporting limit
Shaded and bolded results exceed one or more criteria.

SGVI-SS-NR - Nonresidential Vapor Intrusion Shallow Soil Gas (sub-slab) Screening Levels .Samples collected less than or equal to 1.5
SGVI-NR - Nonresidential Vapor Intrusion Deep Soil Gas Screening Levels*
* - SGVI presented in this table are health-based values. The applicable SGVI are based on the higher of the health-based value and the





SITE MAP

0 2000' 4000'

SCALE IN FEET

LEGEND:

- RACER PROPERTY BOUNDARY
- BUILDING OUTLINE
- FORMER BUILDING OUTLINE
- BASEMENT/TUNNEL AREA
- APPROXIMATE AOI BOUNDARY
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- MONITORING WELL
- ABANDONED MONITORING WELL
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- EVIDENCE OF PRODUCT OBSERVED IN SOIL
- LNAPL DETECTED INTERMITTENTLY AND/OR AT A THICKNESS <0.1 FT
- SSMP-81-06 APROXIMATE SOIL GAS SAMPLING LOCATION

LASER INDUCED FLUORESCENCE RESPONSE (%RE)
COMPLETED BORINGS

- <5
- 5-10
- 10-100
- 100-200
- >200
- × HAND AUGER REFUSAL (TOP 5')

NOTE:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF DECEMBER 31, 2015.

0 20' 40'

APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

RFI-81-38
INVESTIGATION AREA

ARCADIS

FIGURE
DD-1

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIVITB006441\0\2015\00302\644110B02.dwg LAYOUT: 7 SAVED: 10/22/2015 7:13 PM ACADVER: 19.1S (LMS TECH) PAGESETUP: ----
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ARCADIS

Appendix EE

February 15, 2016

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MEMO

To:
Chris Black, USEPA Region 5

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Dave Favero, RACER

From:
Micki M. Maki

Date:
February 15, 2016

ARCADIS Project No.:
B0064410.2016

Subject:
Remedy Recommendation Report
Appendix EE – RFI-10-03 and RFI-10-37 Soil Gas Sampling Summary Memo
RACER Buick City Site, Flint, Michigan

Introduction

This RFI-10-03 and RFI-10-37 Soil Gas Sampling Summary Memo Appendix EE presents a summary of the soil gas sampling data collected downgradient of monitoring wells RFI-10-03 and RFI-10-37 from March 19, 2014 through December 31, 2105 at the Buick City Site (Site) located in Flint, Michigan.

Summary of Investigation Activities

Groundwater samples previously collected from monitoring well RFI-10-03 detected trichloroethene (TCE) at a concentration that exceeds the Michigan Department of Environmental Quality (MDEQ) Vapor Intrusion (VI) Groundwater Screening Levels. Two soil gas sampling probes (SGP-10-01 and SGP-10-02) were installed downgradient of RFI-10-03 to evaluate VOC concentrations in the soil gas along the property boundary (**Figure EE-1**).

TCE was also detected in groundwater samples collected from monitoring well RFI-10-37 at a concentration that exceeds the MDEQ VI Groundwater Screening Levels. Two soil gas sampling probes (SGP-10-03 and SGP-10-04) were installed downgradient of RFI-10-37 to evaluate VOC concentrations along the property boundary (**Figure EE-1**).

Two rounds of soil gas samples were collected from each probe and submitted to the laboratory for VOC analysis.

Summary of Data Evaluation

No VOCs were detected at concentrations exceeding their respective Nonresidential MDEQ VI Soil Gas Screening Levels (**Table EE-1**). Furthermore, the constituents of concern (TCE, cis-1,2-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride) were not detected in any of the soil gas samples.

Table EE-1

Summary of Soil Gas Investigation
Remedy Recommendation Report Appendix D – AOI 10-1/10-4 Hydraulic Oil Area - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	SGVI-NR	SGVI-SS-NR	SGP-10-01 4.5-5.0 06/17/15	SGP-10-01 4.5-5.0 11/24/15	SGP-10-02 4.5-5.0 06/18/15	SGP-10-02 4.5-5.0 11/24/15	SGP-10-03 1.5-2.0 06/18/15	SGP-10-03 1.5-2.0 11/24/15	SGP-10-04 1.5-2.0 06/18/15	SGP-10-04 1.5-2.0 11/24/15
VOC											
1,1,1-Trichloroethane	ppbv	6,100,000	610,000	7	8.7	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
1,1,2,2-Tetrachloroethane	ppbv	430	43	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,1,2-Trichloroethane	ppbv	2,000	200	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,1-Dichloroethane	ppbv	690,000	69,000	3.8 U	3.8 U	3.8 U	4.6	3.8 U	3.8 U	3.8 U	3.8 U
1,1-Dichloroethene	ppbv	280,000	28,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2,4-Trichlorobenzene	ppbv	3,000	300	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
1,2,4-Trimethylbenzene	ppbv	250,000	25,000	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	6.4	3.8 U
1,2-Dibromoethane (Ethylene dibromide)	ppbv	38	3.8	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,2-Dichlorobenzene	ppbv	280,000	28,000	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
1,2-Dichloroethane	ppbv	1,600	160	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,2-Dichloropropane	ppbv	4,800	480	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,3,5-Trimethylbenzene	ppbv	250,000	25,000	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
1,3-Butadiene	ppbv	- -	- -	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
1,3-Dichlorobenzene	ppbv	2,800	280	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,4-Dichlorobenzene	ppbv	4,200	420	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,4-Dioxane	ppbv	- -	- -	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppbv	9,400,000	940,000	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
2-Hexanone	ppbv	41,000	4,100	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
2-Methylnaphthalene	ppbv	9,500	950	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppbv	4,100,000	410,000	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Acetone	ppbv	14,000,000	1,400,000	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Benzene	ppbv	6,500	650	4.7	0.38 U	0.8	0.38 U	1.3	0.38 U	0.75	0.38 U
Benzyl chloride	ppbv	680	68	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U
Bromodichloromethane	ppbv	1,400	140	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
Bromoform	ppbv	15,000	1,500	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Bromomethane (Methyl bromide)	ppbv	7,100	710	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Carbon disulfide	ppbv	1,200,000	120,000	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Carbon tetrachloride	ppbv	4,600	460	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
Chlorobenzene	ppbv	84,000	8,400	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Chloroethane	ppbv	21,000,000	2,100,000	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Chloroform (Trichloromethane)	ppbv	15,000	1,500	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Chloromethane (Methyl chloride)	ppbv	130,000	13,000	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
cis-1,2-Dichloroethene	ppbv	9,800	980	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
cis-1,3-Dichloropropene	ppbv	- -	- -	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Cyclohexane	ppbv	9,700,000	970,000	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Dibromochloromethane	ppbv	830	83	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
Dichlorodifluoromethane (CFC-12)	ppbv	56,000,000	5,600,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	1.2	0.75 U	0.75 U
Ethyl acetate	ppbv	4,900,000	490,000	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Ethylbenzene	ppbv	130,000	13,000	4.9	0.75 U	1.3	0.75 U	0.81	0.75 U	0.76	0.75 U
Hexachlorobutadiene	ppbv	740	74	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Hexane	ppbv	1,100,000	110,000	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Isopropyl alcohol	ppbv	- -	- -	3.8 U	3.8 UL	3.8 U	3.8 UL	3.8 U	3.8 UL	3.8 U	3.8 UL
m&p-Xylene	ppbv	- -	- -	16	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Methyl tert butyl ether (MTBE)	ppbv	4,600,000	460,000	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Methylene chloride	ppbv	180,000	18,000	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U
Naphthalene	ppbv	2,800	280	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
N-Heptane	ppbv	4,700,000	470,000	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
o-Xylene	ppbv	- -	- -	4.4	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Styrene	ppbv	71,000	7,100	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Tetrachloroethene	ppbv	33,000	3,300	0.83	0.48	1.3	0.4	0.61	0.38 U	0.4	0.38 U
Tetrahydrofuran	ppbv	34,000	3,400	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Toluene	ppbv	7,400,000	740,000	29	3.8 U	5.3	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U

Table EE-1

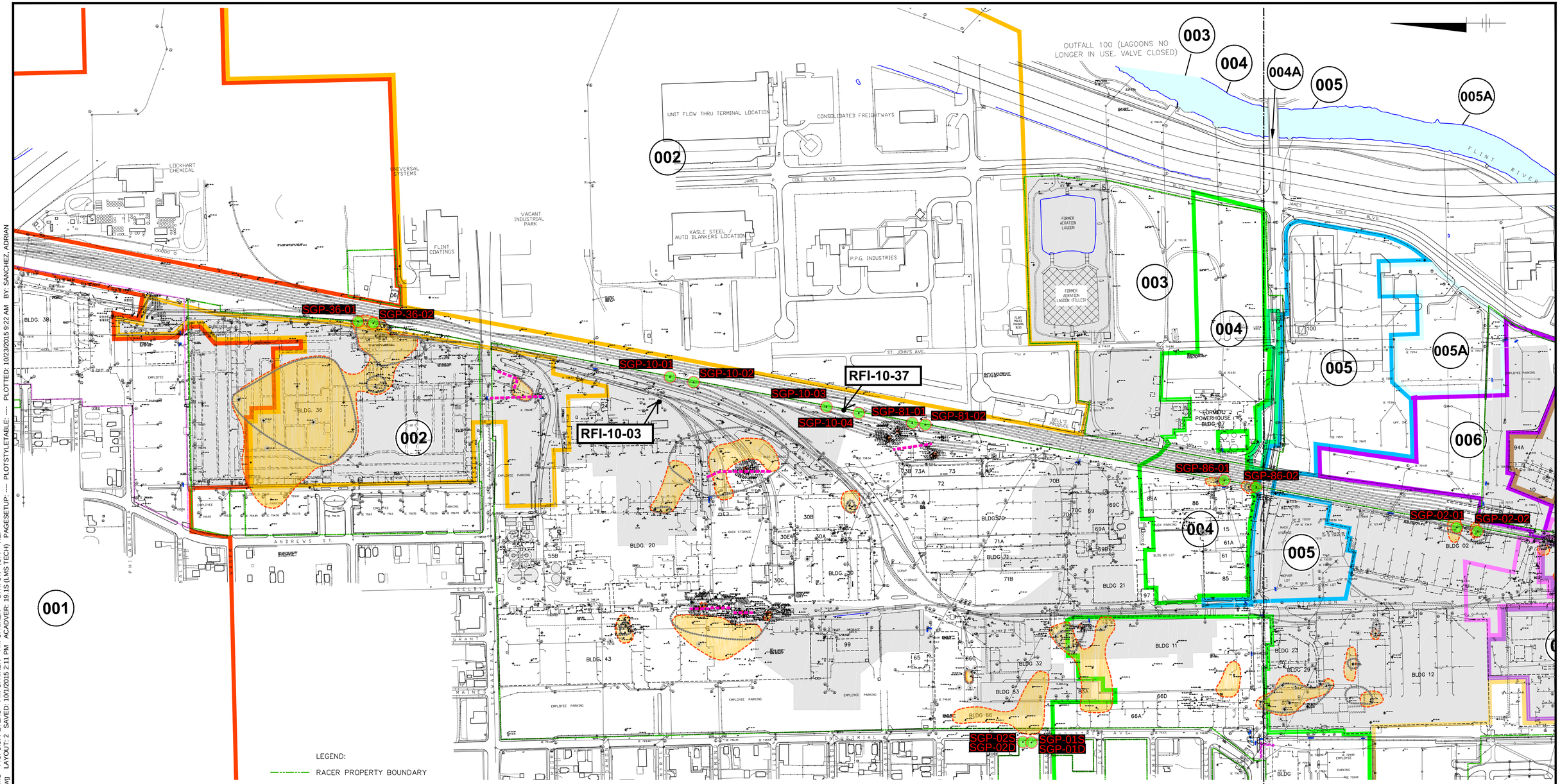
Summary of Soil Gas Investigation
Remedy Recommendation Report Appendix D – AOI 10-1/10-4 Hydraulic Oil Area - Addendum No. 1
RACER Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft bgs): Date Collected:	Units	SGVI-NR	SGVI-SS-NR	SGP-10-01 4.5-5.0 06/17/15	SGP-10-01 4.5-5.0 11/24/15	SGP-10-02 4.5-5.0 06/18/15	SGP-10-02 4.5-5.0 11/24/15	SGP-10-03 1.5-2.0 06/18/15	SGP-10-03 1.5-2.0 11/24/15	SGP-10-04 1.5-2.0 06/18/15	SGP-10-04 1.5-2.0 11/24/15
trans-1,2-Dichloroethene	ppbv	98,000	9,800	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
trans-1,3-Dichloropropene	ppbv	- -	- -	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Trichloroethene	ppbv	2,100	210	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Trichlorofluoromethane (CFC-11)	ppbv	56,000,000	5,600,000	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Trifluorotrichloroethane (Freon 113)	ppbv	14,000,000	1,400,000	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Vinyl acetate	ppbv	320,000	32,000	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Vinyl chloride	ppbv	15,000	1,500	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Xylene (total)	ppbv	130,000	13,000	20	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U

Notes:
ppbv - parts per billion by volume
ft - feet
U – not detected above the reporting limit
Shaded and bolded results exceed one or more criteria.

SGVI-SS-NR - Nonresidential Vapor Intrusion Shallow Soil Gas (sub-slab) Screening Levels .Samples collected less than or equal to 1.5 meters bgs or building
SGVI-NR - Nonresidential Vapor Intrusion Deep Soil Gas Screening Levels*
* - SGVI presented in this table are health-based values. The applicable SGVI are based on the higher of the health-based value and the appropriate analytical reporting

CITY: SYRACUSE DIV/GROUP: 141 DB: A.SANCHEZ LD: GMS PIC: C.S. PETERS PM: C. KIKER TM: C. KIKER LYR: ON=*;OFF=*REF*
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IMAGES: PROJECTNAME: ----



LEGEND:

- RACER PROPERTY BOUNDARY
- PREVIOUSLY OWNED PROPERTY BY RACER TRUST
- APPROXIMATE HISTORICAL EXTENT OF MEASURABLE LNAPL (>0.5 FEET)
- APPROXIMATE CURRENT EXTENT OF MEASURABLE LNAPL (>0.1 FEET)
- AREAS WITH NO DIRECT DRAINAGE TO THE STORM SEWER
- RECOVERY TRENCH
- STORM SEWER
- STORM SEWER BULKHEAD LOCATION
- 001 OUTFALL DRAINAGE AREA AND NUMBER
- SGP-36-01 SOIL GAS SAMPLING LOCATION

0 250' 500'
APPROXIMATE SCALE IN FEET

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100. AERIAL IMAGE FROM ARCGIS 10 ONLINE MAPPING, ACCESSED 6/12/2013.
2. BASED ON INFORMATION AVAILABLE AS OF MARCH 2015.

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

RFI-10-03 AND RFI-10-37 SOIL GAS SAMPLING LOCATIONS

ARCADIS

FIGURE
EE-1